SONY

3-796-928-**14** (2)

Network Camera

User's Guide

Software Version 1.0

SNC-Z20N/Z20P

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Overview

- You should keep in mind that the images or audio you are monitoring may be protected by privacy and other legal rights, and the responsibility for making sure you are complying with applicable laws is yours alone.
- Access to the images and audio is protected only by a user name and the password you set up. No further authentication is provided nor should you presume that any other protective filtering is done by the service. Since the service is Internet-based, there is a risk that the image or audio you are monitoring can be viewed or used by a third-party via the network.
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Phenomena Specific to CCD Image Sensors

The following phenomena that may appear in images are specific to CCD (Charge Coupled Device) image sensors. They do not indicate malfunctions.

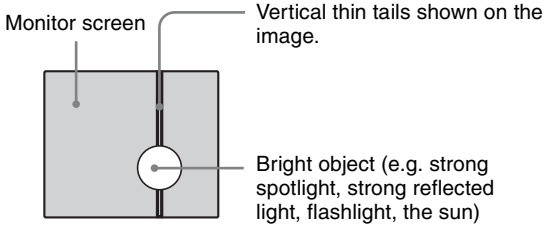
White flecks

Although the CCD image sensors are produced with high-precision technologies, fine white flecks may be generated on the screen in rare cases, caused by cosmic rays, etc.
This is related to the principle of CCD image sensors and is not a malfunction.
The white flecks especially tend to be seen in the following cases:

- when operating at a high environmental temperature
- when you have raised the gain (sensitivity)
- when using the slow shutter

Vertical smear

When an extremely bright object, such as a strong spotlight or flashlight, is being shot, vertical tails may be produced on the screen, or the image may be distorted.


Monitor screen
Vertical thin tails shown on the image.
Bright object (e.g. strong spotlight, strong reflected light, flashlight, the sun)

Aliasing

When fine patterns, stripes, or lines are shot, they may appear jagged or flicker.

How to Use This User's Guide

This User's Guide explains how to operate the SNC-Z20N/Z20P Network Camera from a computer.
The User's Guide is written to be read on the computer display.
As this section gives tips on using the User's Guide, read it before you operate the camera.

Jumping to the related page

When you read the User's Guide on the computer display, click on the sentence to jump to the related page.

Software display examples

Note that the displays shown in the User's Guide are explanatory examples. Some displays may be different from the ones which appear as you operate the application software.

Printing the User's Guide

Depending on your system, certain displays or illustrations in the User's Guide, when printed out, may differ from those as portrayed on your screen.

Installation Manual (printed matter)

The supplied Installation Manual describes the names and functions of parts and controls of the Network Camera, connecting examples and how to set up the camera. Be sure to read the Installation Manual before operating.

Operating the Camera

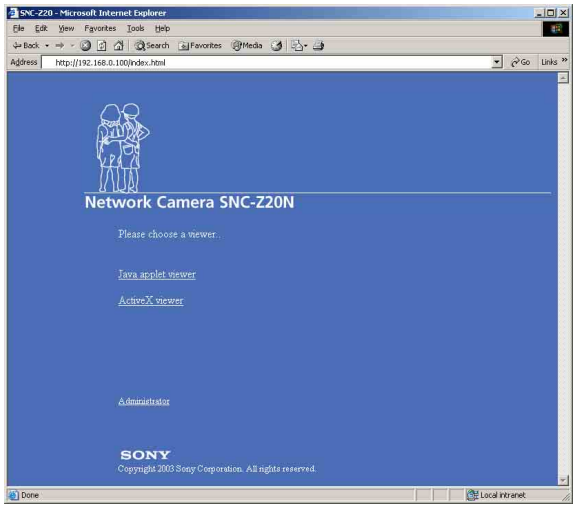
The Operating the Camera section explains how to monitor the image from the camera using the Web browser. Use Internet Explorer as the Web browser. For setting the camera, see “Administrating the Camera” on page 13.

Logging in to Homepage — Welcome Page

Logging in as a User

1 Start the web browser on the computer and type the IP address of the camera you want to monitor.

The welcome page of **Network Camera SNC-Z20** is displayed.



2 Click to select the viewer.
You can select the viewer from among **Java applet viewer**, **ActiveX viewer** whichever is suitable for your system environments and usage.
For details, see “About Viewers” on page 7.
When you have selected the viewer, the main viewer page appears (see page 8).

Note

To operate the welcome page correctly, set the security level of the Internet Explorer to **Medium** or lower, as follows:

1 Select **Tool** from the menu bar of Internet Explorer, then select **Internet Options** and **Security** tab in sequence.

2 Click the **Internet** icon (when using the camera via the Internet) or **Local intranet** icon (when using the camera via a local network).

3 Set the slider to **Medium** or lower. (If the slider is not displayed, click **Default Level**.)

When using antivirus software in the computer

- When you use antivirus software in your computer, the camera performance may be reduced, for example, the frame rate for displaying the image may lower.
- The Web page displayed when you log in the camera uses Java Script. The display of the page may be affected if you use antivirus software in your computer.

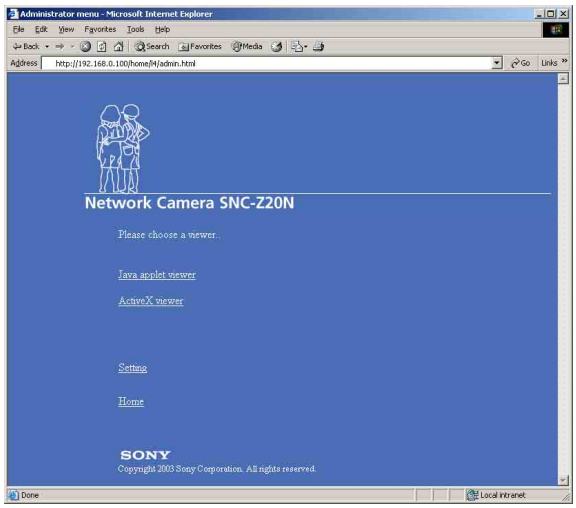
Logging in as Administrator

If you log in the camera as the Administrator, you can perform all the settings provided with the software. The Administrator may be logged in at any time, regardless of the number of the users being accessed.

1 Click **Administrator** on the welcome page.
The login page appears.

2 Enter the user name and password for Administrator, then click **OK**.
The user name “admin” and the password “admin” are set at the factory for the Administrator. You can change them on the User setting page in the Administrator menu (see page 25).

The welcome page is changed to that for Administrator.



3 Select the viewer.
You can select the viewer from among **Java applet viewer**, **ActiveX viewer** whichever is suitable for your system environments and usage.
For details, see "About Viewers" on page 7.
When you have selected the viewer, the main viewer page appears (see page 8).

Other functions on the welcome page for Administrator

Setting
Click to display the Administrator menu (see page 13).

Home
Click to return to the normal welcome page.

About Viewers

You can select one of the following three viewers.

Java applet viewer

It displays the main viewer page using Java. The frame rate is lower than the ActiveX viewer.
The Java applet viewer operates only when Java is installed and Java (Sun) is enabled. If it does not operate correctly, check whether the effective Java version has been installed successfully and Java (Sun) is enabled.

Effective version: Java Plug-in Ver. 1.6.0_01

To check the Java version
Select **Tools** from the menu bar of Internet Explorer, then select **Internet Options** and click the **Advanced mode** tab. Check whether the version of Java displayed for **Java (Sun)** is one of the versions specified above. If **Java (Sun)** is not displayed, it means that Java is not installed. You need to install Java.

To enable Java Plug-in
Check "Use JRE 1.6.0_01 for <applet> (requires restart)" in "Java (Sun)".

To install Java Plug-in
Download Java 2 Runtime Environment, Standard Edition (JRE) from the website of Sun Microsystems, Inc., and install it by following the instructions on the installer.

ActiveX viewer

It displays the main viewer page using ActiveX.
With this viewer, you can display images at a high frame rate and use all the functions provided with this software.
When you log in the camera using Internet Explorer for the first time, the Security Warning appears. Click **Yes** and install ActiveX Control.

Notes

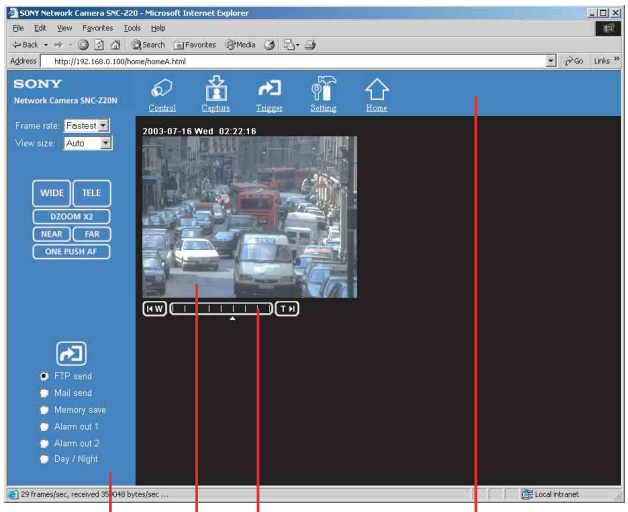
- If you cannot display the image on Windows NT4.0 or Windows 98, install **MFC42DLL Version Up Tool** stored in the supplied CD-ROM.
- If **Automatic configuration** is enabled in the Local Area Network (LAN) Settings of Internet Explorer, the image may not be displayed. In that case, disable **Automatic configuration** and set the Proxy server manually. For the setting of the Proxy server, consult your network administrator.
- When you install ActiveX Control, you should be logged in to the computer as Administrator.
- When you are using Windows XP Service Pack 2 or Windows Vista, the information bar or "Security Warning" may appear as you click **Enter**. For details, see "Installing ActiveX Control" in see "When using Windows XP Service Pack 2" on page 51 or "Installing ActiveX Control" in see "When using Windows Vista" on page 53.

Tip
Every page of this software is optimized as display character size **Medium** for Internet Explorer.

Configuration of Main Viewer Page

When you select the viewer, the main viewer page is displayed.
This section briefly explains the functions of the parts and controls on the main viewer page. For a detailed explanation on each part or control, see the specified pages.

Main viewer page



Menu Section

The available functions are limited by user access right. You can change user access right on the User setting page (see page 25).

Control
Displays the camera control parts on the image control section. (See “Operating the Camera from the Image Control Section” on page 10.)
User access right **Level 2** to **Level 4** is required for this function.

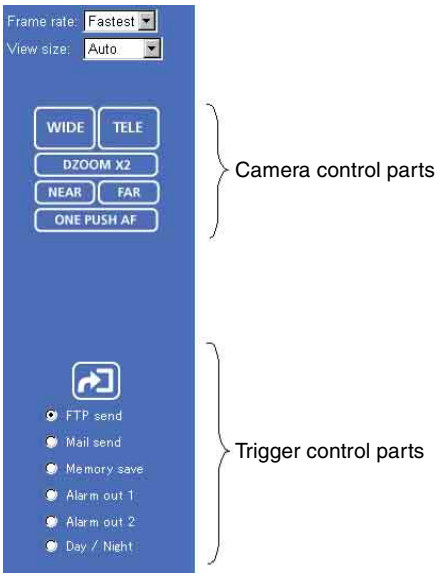
Capture
Captures a still image shot by the camera and stores it in the computer. (See “Capturing a Monitor Image” on page 12.)

Trigger
Displays the trigger control parts on the image control section.
By clicking the trigger button, you can control various applications manually. (See “Controlling the Application Manually” on page 11.)
User access right **Level 3** or **Level 4** is required for this function.

Setting
Displays the Administrator menu. (See “Configuration of Administrator Menu Page” on page 13.)
User access right **Level 4** is required for this function.

Home
Displays the Welcome page.

Image Control Section



Frame rate

Selects the frame rate to transmit images.
See “Selecting the frame rate” on page 9.

View size

Selects the image size to be displayed.
See “Selecting the view size” on page 9.

Camera control parts

These parts are displayed when you click **Control** on the menu section. You can operate the camera using these parts.
See “Operating the Camera from the Image Control Section” on page 10.

Trigger control parts

These parts are displayed when you click **Trigger** on the menu section. You can output a trigger using these parts.
See “Controlling the Application Manually” on page 11.

Monitor Image Section

The image shot by the camera is shown here.
Click **Control** on the menu section to allow zooming of the camera from the monitor image.
See “Operating the Camera from the Monitor Image” on page 11.

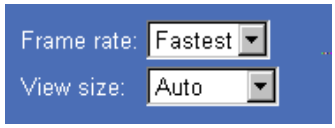
Zoom Bar

The zoom bar is displayed when you click **Control** on the menu section. You can operate the zoom using the zoom bar.
See “Zooming Using the Zoom Bar” on page 11.

Controlling the Monitor Image

You can control the monitor image from the image control section on the main viewer page.

Image control section



Selecting the frame rate

Click the down-arrow button in the **Frame rate** box and select the frame rate with which the images are transmitted, from the drop-down list.
You can select the frame rate from among the following:
SNC-Z20N:
1, **2**, **3**, **4**, **5**, **6**, **8**, **10**, **15**, **20**, **25**, **Fastest**
SNC-Z20P:
1, **2**, **3**, **4**, **5**, **6**, **8**, **12**, **16**, **20**, **Fastest**
The numbers indicate “FPS” (the number of frames transmitted per second).
With **Fastest**, the camera transmits the maximum number of frames possible for the connected line. The maximum frame rate is 30 FPS for the SNC-Z20N and 25 FPS for the SNC-Z20P.

Note

The frame rate options indicate the maximum number of frames that can be transmitted. The number of frames actually transmitted may vary depending on the network environments and camera settings (image size and image quality settings).

Selecting the view size

Click the down-arrow button in the **View size** box and select the view size from the drop-down list.
You can select the view size from among the following:
Auto, **640 × 480**, **320 × 240**, **160 × 120**
Auto is determined by the image size specified with **Image size** on the Camera setting page (see page 17).

Operating the Camera from the Image Control Section

You can operate the camera from the image control section on the main viewer page.
For this function, user access right **Level 2** to **Level 4** is required (see page 25).

Click **Control** on the menu section to display the camera control parts.

Image control section (camera control parts)

Zooming

Click to zoom out.

CIick to zoom in.

Note

You can change the operation mode of the zooming using the TELE/WIDE buttons from the Camera control mode setting section on the Camera setting page (see page 21). When you have changed the operation mode, click **Control** on the menu section to update the operation mode setting on the image control section.

When the Zoom mode menu on the Camera setting page is set to **Optical only**, clicking this button operates the electronic ×2 zoom.
The button name changes to **DZOOM x 1**.

When the Zoom mode menu on the Camera setting page is set to **Optical only**, this button is displayed while the electronic ×2 zoom is operating. Clicking this button cancels the electronic ×2 zoom.
The button name changes to **DZOOM x 2**.

About the zoom range

When the Zoom mode menu on the Camera setting page is set to **Full** (see page 19), you can operate high-magnification zoom, optical zoom of × 18 and electronic zoom of × 12, giving × 216 in total. The electronic zoom will operate after the optical zoom.
When the Zoom mode menu is set to **Optical only**, only optical zoom of × 18 can operate. In this case, you can use an electronic zoom of × 2 by clicking the **DZOOM x 2** button. To cancel the electronic zoom, click **DZOOM x 1**.

Note

When you have changed the Zoom mode menu on the Camera setting page, click the Control button on the menu section to update the zoom mode setting on the image control section.

Focusing

The focus is automatically adjusted when the Focus mode menu on the Camera setting page is set to **Auto** (see page 19). When you set it to **Manual**, you can adjust the focus manually from the image control section, or adjust it with a push of the button.

Adjust the focus manually by clicking the two buttons alternately.

Click this button to adjust the focus instantly.

Notes

- When you have changed the Focus mode menu on the Camera setting page, click the Control button on the menu section to update the focus mode setting on the image control section.
- You can change the operation mode of the manual focusing using the NEAR/FAR buttons from the Camera control mode setting section on the Camera setting page (see page 21). When you have changed the operation mode, click **Control** on the menu section to update the operation mode setting on the image control section.

Operating the Camera from the Monitor Image

You can operate zooming of the camera by clicking the mouse on the monitor image. Zooming is also operative using the zoom bar under the monitor image.
For this function, user access right **Level 2** to **Level 4** is required (see page 26).

To enable this function, click **Control** on the menu section.

Zooming Using the Center Wheel of the Mouse

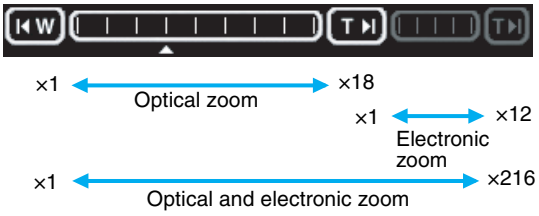
When you use the ActiveX viewer, you can zoom in/out using the center wheel of the mouse. Turn the center wheel forward to zoom in, and backward (toward you) to zoom out.

Notes

- This function does not operate when you use a mouse without the center wheel.
- This function does not operate on the Java applet viewer.
- This function may not operate correctly depending on your system environments.

Zooming Using the Zoom Bar

You can operate the optical zoom (×1 to ×18) and the electronic zoom (×1 to ×12) using the zoom bar displayed under the monitor image.



Click T to zoom in to the TELE end (×18).
Click T to zoom in to the TELE end (×216 with the optical and electronic zoom).
Click W to zoom out to the WIDE end (×1).

When you click on the zoom bar, the camera zooms in or out corresponding to the clicked position, and ▲ moves to the clicked position.

Notes

- When the Zoom mode menu on the Camera setting page is set to **Optical only**, only the optical zoom bar appears.
- When you have changed the Zoom mode menu on the Camera setting page, click the Control button on the menu section to update the Zoom mode setting on the zoom bar.

Controlling the Application Manually

You can send an image or output a trigger to control the alarm output, using the image control section on the main viewer page.
For this function, user access right **Level 3** or **Level 4** is required (see page 25).

Click **Trigger** on the menu section to display the trigger control parts.

Image control section (trigger control parts)

Sending a Still Image File to an FTP Server

If you select **FTP send** and click , the current still image is captured and the captured image file is sent to the FTP server.
To use this function, you need to select the **Use FTP client function** option and the **Manual** mode on the FTP client setting page.
For details, see “Sending Images to FTP Server — FTP client setting Page” on page 27.

Sending a Still Image via E-mail

If you select **Mail send** and click , the current still image is captured and an E-mail with the captured image file attached is sent to the E-mail address(es) specified on the SMTP setting page.
To use this function, you need to select the **Use SMTP function** option and the **Manual** mode on the SMTP setting page.
For details, see “Sending an Image via E-mail — SMTP setting Page” on page 32.

Recording a Still Image on an ATA Memory Card or the Built-in Memory of the Camera

If you select **Memory save** and click , the current still image is captured and stored in the memory specified on the Image memory setting page.
To use this function, you need to select the **Use image memory function** option and the **Manual** mode on the Image memory setting page.
For details, see “Recording Images in Memory — Image memory setting Page” on page 35.

Controlling Alarm Output

If you select **Alarm out 1** or **Alarm out 2** and click , you can control alarm out 1 or alarm out 2 of the I/O port on the camera manually. Each click switches the relay between short-circuit and open alternately.
To use this function, you need to select the **Use alarm out 1 (or 2) function** option and the **Manual** mode on the Alarm out 1 or Alarm out 2 setting page.
For details, see “Setting the Alarm Out 1 or 2 — Alarm out 1 or 2 setting Page” on page 34.

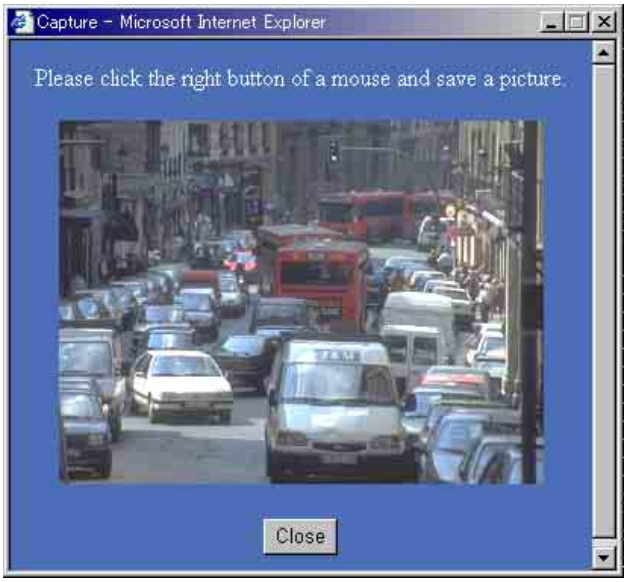
For the connection of peripheral devices to the Alarm out of the I/O port, see the supplied Installation Manual.

Selecting the Day/Night Mode

If you select **Day/Night** and click , you can select the Day/Night mode. Each click switches between the day mode and night mode.
To use this function, you need to select the Day/Night mode menu on the Camera setting page to **Manual**.
For details, see “Setting the Camera — Camera setting Page” on page 20.

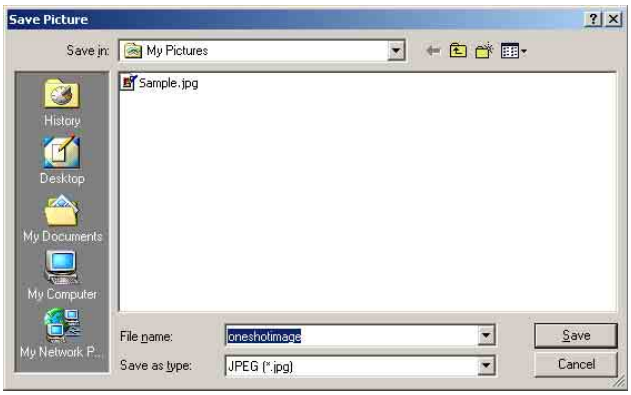
Capturing a Monitor Image

If you click the **Capture** button on the menu section, the current still image is captured and displayed on the monitor image section.



To save the captured image

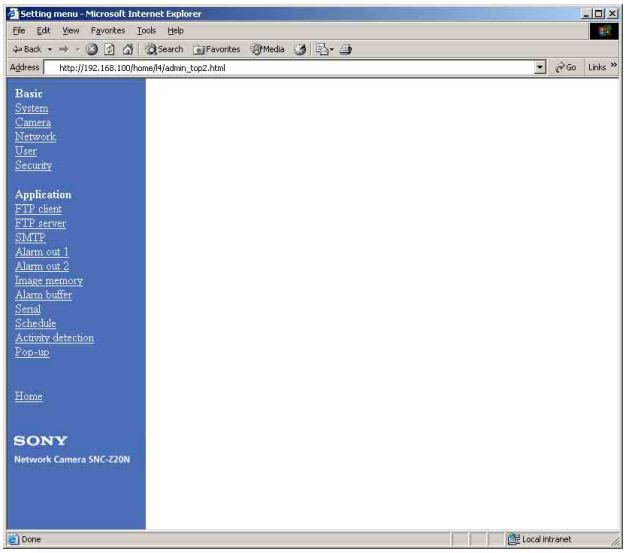
Right-click on the monitor image and select **Save As** from the menu. Then, the Save Picture dialog appears. Type the file name and specify the destination to which the image file is to be stored, and click **Save**. The image is saved in the JPEG format.



The Administrating the Camera section explains how to set the functions of the camera by the Administrator. For monitoring the camera image, see “Operating the Camera” on page 6.

Configuration of Administrator Menu Page

The Administrator menu page is displayed when the Administrator having **Level 4** access right selects **Setting** on the welcome page for Administrator, or when the **Setting** button on the menu section of the main viewer page is clicked.



The Administrator menu consists of the Basic menu and the Application menu. The Basic menu is used for basic settings of the camera, and the Application menu is used for setting various applications according to individual. Click on each menu name to display its setting page.

Basic menu

System
Displays the System setting page.
See “Configuring the System — System setting Page” on page 14.

Camera
Displays the Camera setting page.
See “Setting the Camera — Camera setting Page” on page 17.

Network
Displays the Network (Ethernet) setting page.
See “Configuring the Network — Network setting Page” on page 21.

User
Displays the User setting page.
See “Setting the User — User setting Page” on page 25.

Security
Displays the Security setting page.
See “Setting the Security — Security setting Page” on page 26.

Application menu

FTP client
Displays the FTP client setting page.
See “Sending Images to FTP Server — FTP client setting Page” on page 27.

FTP server
Displays the FTP server setting page.
See “Downloading Images from the Camera — FTP server setting Page” on page 31.

SMTP
Displays the SMTP setting page.
See “Sending an Image via E-mail — SMTP setting Page” on page 32.

Alarm out 1
Displays the Alarm out 1 setting page.
See “Setting the Alarm Out 1 or 2 — Alarm out 1 or 2 setting Page” on page 34.

Alarm out 2
Displays the Alarm out 2 setting page.
See “Setting the Alarm Out 1 or 2 — Alarm out 1 or 2 setting Page” on page 34.

Image memory
Displays the Image memory setting page.
See “Recording Images in Memory — Image memory setting Page” on page 35.

Alarm buffer
Displays the Alarm buffer setting page.
See “Setting the Alarm Buffer — Alarm buffer setting Page” on page 39.

Serial
Displays the Serial setting page.
See “Communicating Data via Serial Port — Serial setting Page” on page 39.

Schedule
Displays the Schedule setting page.
See “Setting the Schedule — Schedule setting Page” on page 40.

Activity detection
Displays the Activity detection setting page.
See “Setting the Activity Detection Function — Activity detection setting Page” on page 41.

Pop-up
Displays the Pop-up setting page.
See “Showing the Pop-up — Pop-up setting Page” on page 42.

Buttons common to every setting page

The following buttons are displayed on the setting pages where they are necessary. The functions of the buttons are the same on every setting page.

Click this button to validate the settings.

Click this button to invalidate the set values and return to the previous settings.

Click this button to return to the top of the setting page.

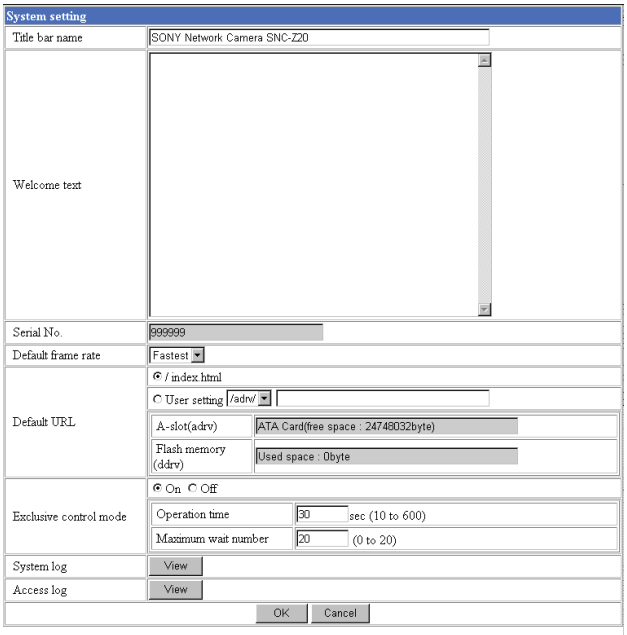
General notes on setting pages

- After changing a setting on a setting page, wait at least 10 seconds before turning off the power of the camera. If the power is turned off immediately, the changed setting may not be stored correctly.
- When you display the Area setting page or Activity detection setting page, the size of the image on the main viewer page may change for a while. This is not a problem.
- When the camera settings are changed while watching the main viewer, some settings cannot be restored. To reflect the change on the opening main viewer, click **Refresh** of the Web browser.

Configuring the System — System setting Page

When you click **System** on the Administrator menu, the System setting page appears.
Use this page to perform the principal settings of the software.

System setting Section



Title bar name
Type a name to display on the title bar up to 32 characters.

Welcome text
Type a text to show on the welcome page, in HTML format, up to 1,024 characters. Use the <BR> tag for a line break. (A line break is equivalent to 2 characters.)

Serial No.
Displays the serial number of the camera.

Default frame rate

Select the initial frame rate which is selected when you log in the camera and display the main viewer page. Click the down-arrow button in the box and select the frame rate from the drop-down list.
The selectable frame rates are the following:
SNC-Z20N:
1, **2**, **3**, **4**, **5**, **6**, **8**, **10**, **15**, **20**, **25**, **Fastest**
SNC-Z20P:
1, **2**, **3**, **4**, **5**, **6**, **8**, **12**, **16**, **20**, **Fastest**
The numbers indicate "FPS" (the number of frames transmitted per second).
With **Fastest**, the camera transmits the maximum number of frames possible for the connected line. The maximum frame rate is 30 FPS for the SNC-Z20N and 25 FPS for the SNC-Z20P.

Note

To update the main viewer page for the changed setting, click **Refresh** of the browser.

Default URL

Select the homepage to be displayed when you enter the IP address of the camera in the Address box of the browser.

To display the homepage built in the camera

Select **/index.html**.

To display your individual homepage

You can display the favorite homepage that you have created using the CGI commands of the camera. Store the created HTML file in the recommended ATA memory card and insert the card into the PC card slot of the camera, or store the HTML file in the built-in flash memory using the Custom Homepage Installer included in the supplied CD-ROM.

1 Select **User Setting**.

2 Store the HTML file of the homepage you created into an ATA memory card and insert the card into the PC card slot of the camera. Or, store the HTML file in the built-in flash memory using the Custom Homepage Installer included in the supplied CD-ROM.
For use of the Custom Homepage Installer, see page 49.

3 Select **/adrv/** when using the ATA memory card, or **/ddrv/** from the drop-down list when using the built-in flash memory.

4 Type the path of the homepage in the text box up to 64 characters.

For the verified cards, contact your authorized Sony dealer.

A-slot (adrv)

Displays the type of the PC card inserted into the PC card slot and its free card space.

Flash memory (ddrv)

Displays the file size stored in the built-in flash memory.

Exclusive control mode.

Limits the operation of the camera
If you select **Off**, multiple users can operate the camera at the same time. The operation by the user accessed later has priority.
If you select **On**, only one user can operate the camera. The period of operation allowed to one user is determined by the Operation time setting. If a user tries to operate the camera while another user is operating it, the control right is limited according to the Operation time and Maximum wait number settings.

Operation time

Sets the period that one user can operate the camera exclusively, between 10 and 600 sec.
This setting is valid when the Exclusive control mode menu is set to **On**.

Maximum wait number

Sets the maximum number of users that can wait to control the camera while another user is operating the camera. The selectable number is between 0 and 20.
This setting is valid when the Exclusive control mode menu is set to **On**.

Notes

- Before using the Exclusive control mode, you need to set the date and time correctly on this camera and the connected computer.
- When you use the Exclusive control mode, enable the Cookie on your browser. The Exclusive control mode does not function if the Cookie is disabled.
- After you have changed a setting of the Exclusive control mode menu, click **Refresh** of the browser to update for the changed setting.

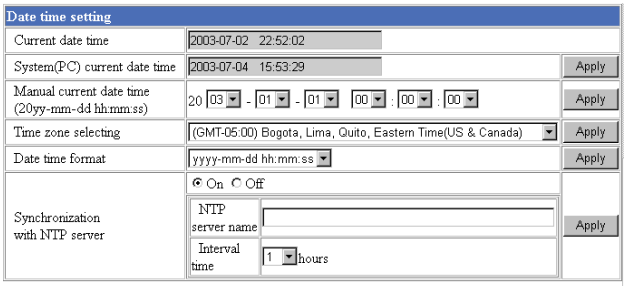
System log

Click **View** to display the Log file events page.
The Log file events page shows the software version and troubleshooting information.

Access log

Click **View** to display the Access log page.
The Access log page shows the history of accessing the camera.

Date time setting Section



Current date time

Displays the date and time set on the camera.
You can set the date and time using the following two methods.

Note

When you purchased the camera, be sure to check the date and time of the camera and set them if necessary.

System (PC) current date time

Displays the date and time set on your computer.
Click **Apply** to transfer the computer's date and time to the camera.
The set date and time are shown on Current date time.

Manual current date time

When you want to set the camera's date and time manually.
Select the lower 2-digits of the year, month, date, hour, minutes and seconds from each drop-down list. Click **Apply** to change the Current date time setting to the date and time you selected.

Time zone selecting

Set the time difference from Greenwich Mean Time in the area where the camera is installed. When you send an E-mail, the senting date and time is adjusted according to this setting.
Select the time zone where the camera is installed from the drop-down list. Click **Apply** to change the Current date time setting according to the selection.

Notes

- If the time zone selected on the Time zone selecting menu is different from that set on the computer, the time is adjusted using the time zone difference and set on the camera.
- Due to the network properties, there may be a slight difference between the actual time and the time set on the camera.

Date time format

Select the format of date and time to be displayed on the monitor image from the drop-down list.
You can select from among **yyyy-mm-dd hh:mm:ss** (year-month-day hour:minute:second), **mm-dd-yyyy hh:mm:ss** (month-day-year hour:minute:second), and **dd-mm-yyyy hh:mm:ss** (day-month-year hour:minute:second).
Click **Apply** to transfer the setting to the camera.

Synchronization with NTP server

Synchronizes the camera's time with that of the NTP (Network Time Protocol) server.
Select **On** to activate the time synchronization, and **Off** to deactivate it.

NTP server name

Type the host name or IP address of the NTP server, up to 64 characters.
This setting is valid when the Synchronization with NTP server menu is set to **On**.

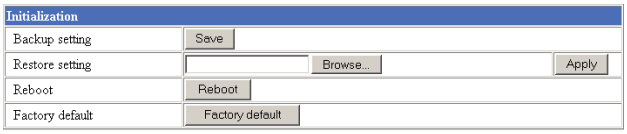
Interval time

Select the interval at which you want to adjust the camera's time referring to the NTP server' time, between 1 and 24 hours. The set interval is a guide, and does not indicate the exact time.
This setting is valid when the Synchronization with NTP server menu is set to **On**.

Note

The time adjusted by this function may be slightly in error depending on the network environments between the camera and the NTP server.

Initialization Section



Backup setting

Saves the setting data of the camera in a file.
Click **Save**, and follow the instructions on the browser to specify the folder and save the setting data of the camera. The file name preset at the factory is "snc-z20.cfg."

Restore setting

Loads the stored setting data of the camera.
Click **Browse** and select the file in which the setting data is stored. Then, click **Apply**, and the camera is adjusted according to the loaded data and restarted.

Note

The IP address setting in the Wired LAN setting section (see page 21) on the Network setting page and the IP address setting in the Wireless LAN setting section (see page 22) cannot be set.

Reboot

Reboots the camera.
Click **Reboot**, and "The SNC-Z20 will be rebooted. Are you sure?" appears. Click **OK** to reboot the camera.

Factory default

Resets the camera to the factory settings.
Click **Factory default**, and "All configuration information will be initialized as factory setting. Are you sure?" appears. Click **OK** to reset to the factory settings.

Setting the Camera
— Camera setting Page

When you click **Camera** on the Administrator menu, the Camera setting page appears.
Use this page to set the functions of the camera.

Note

To update the camera for the changed setting, click **Apply** on the changed item.

Camera setting Section

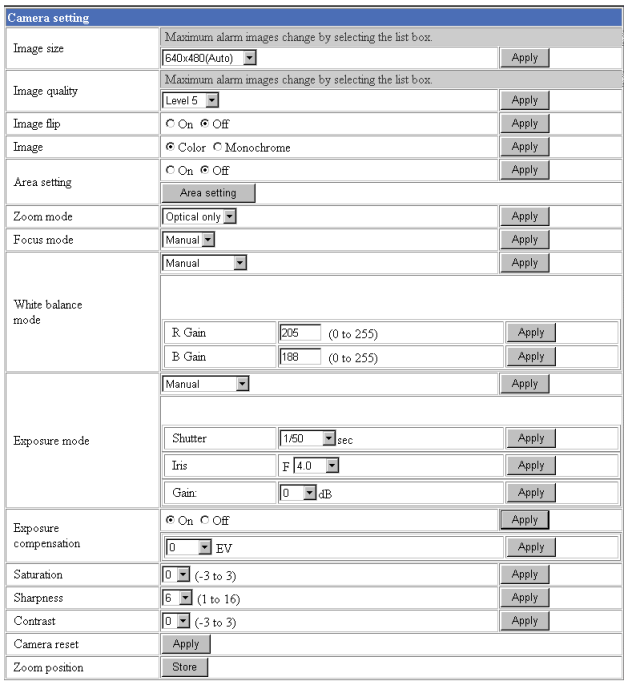


Image size

Select the size of the image to be transmitted to the computer.
You can select from among the following options.
SNC-Z20N:
736 × 480 (Auto), **736 × 480 (Frame)**, **736 × 480 (Field)**, **640 × 480 (Auto)**, **640 × 480 (Frame)**, **640 × 480 (Field)**, **320 × 240**, **160 × 120**
SNC-Z20P:
736 × 544 (Auto), **736 × 544 (Frame)**, **736 × 544 (Field)**, **640 × 480 (Auto)**, **640 × 480 (Frame)**, **640 × 480 (Field)**, **320 × 240**, **160 × 120**
Frame is suitable for still images, and **Field** is suitable for animation.
If you select **Auto**, the image mode changes between **Frame** and **Field** automatically: **Frame** when the subject is a still object, and **Field** when the subject is moving.

Image quality

Select the image quality from **Level 1** to **Level 10**.
A higher level gives a higher image quality, but the frame rate decreases as the data size increases.

Tip

The following table shows the relation between the data size of a 24-bit image (8 bits for each R, G and B), and the compression rate for each Level setting.
(in case of 640 × 480 image)

Level	Data size (approx.)	Compression rate (approx.)
1	15 KB	1/60
2	18 KB	1/50
3	22.5 KB	1/40
4	25.7 KB	1/35
5	30 KB	1/30
6	36 KB	1/25
7	45 KB	1/20
8	60 KB	1/15
9	90 KB	1/10
10	180 KB	1/5

Image Flip

You can display the image flipped vertically on the computer.
When you install the camera upside down, select **On** to view the image in correct way.

Note

When **On** is selected, the composite video signal output from the video output connector (BNC connector) on the rear of the camera is also flipped.

Image

Select **Color** or **Monochrome**.

Area setting

When the image size is **736 × 480** or **640 × 480** for the SNC-Z20N, or **736 × 544** or **640 × 480** for the SNC-Z20P, you can trim a portion of the image and display the trimmed image on the computer. With the trimming, the transmitting data size, and thus, the network load is reduced and a higher frame rate is obtained.

Select **On** for trimming the image, or **Off** for no trimming.

Click **Area setting** to display the Area setting page.

Select mode

Select the image trimming mode.

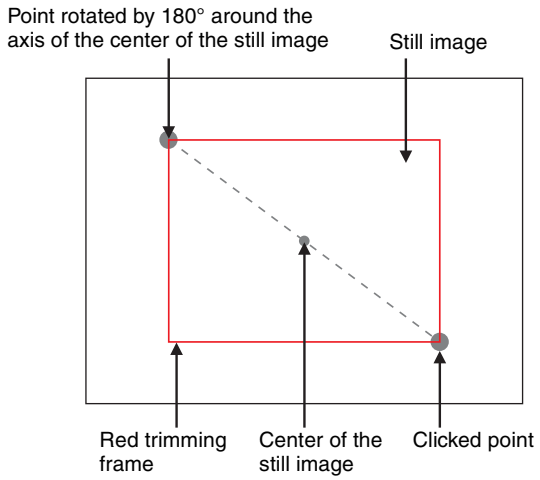
Base on the image center: The image is trimmed using the center of the image as the reference point. This setting is recommended when you perform zooming.
Random: The image is trimmed as you specify. This setting is recommended when you fix zooming.

To trim an image

1. Set the Image size menu to **736 × 480** or **640 × 480** for the SNC-Z20N, or **736 × 544** or **640 × 480** for the SNC-Z20P.
2. Set the Area setting menu to **On**, and click **Apply**.
3. Click the Area setting button.
   A still image is displayed.
4. Select the image trimming mode with the Select mode menu, and specify the trimming portion.

   When Based on the image center is selected:
   Click on the still image. The red frame that appears when you clicked indicates the trimming portion.

The trimming portion is determined as shown below:


Point rotated by 180° around the axis of the center of the still image
Still image
Red trimming frame
Center of the still image
Clicked point

To change the trimming portion, click on another point on the image.

When Random is selected:
Click the left button of the mouse on the still image and drag it diagonally. The red frame that appears as you drag indicates the trimming portion.

5 Click **OK** at the bottom of the window.
The trimmed image is displayed on the main viewer page.

6 To close the image, click ⊠ on the upper-right corner.

Zoom mode

Select the zoom mode.
Select **Full** to operate the optical zoom of × 18 and the electronic zoom of × 12, giving × 216 in total. The electronic zoom will operate after the optical zoom.
Select **Optical only** to operate the optical zoom of × 18 only. In this case, you can use an electronic zoom of × 2 by clicking the DZOOM × 2 button on the main viewer page. To cancel the electronic zoom, click the DZOOM × 1 button. (See "Zooming" on page 10.)

Focus mode

Select the focus mode.
Select **Auto** to adjust the focus automatically.
Select **Manual** to adjust the focus manually using the NEAR and FAR buttons on the main viewer page. If you click the ONE PUSH AF button, the focus is adjusted instantly. (See "Focusing" on page 10.)

White balance mode

Select the white balance mode.
You can select from among **Auto**, **Indoor**, **Outdoor**, **One push WB**, **ATW** and **Manual**.

If you select **One push WB**, the **ONE PUSH TRIGGER** button is displayed. Click the button to adjust the white balance instantly.
If you select **Manual**, the **R Gain** and **B Gain** controls are displayed. Set 0 to 255 for each control.

Exposure mode

Select the exposure from among **Full auto**, **Shutter priority**, **Iris priority** and **Manual**.
The setting items required for each setting appear.

Full auto: Adjusts the exposure automatically using the electronic shutter, iris and gain. Select the Back light compensation menu **On** or **Off**.

Shutter priority: Adjusts the exposure automatically using the iris and gain. Select the electronic shutter speed from the Shutter drop-down list.

Iris priority: Adjusts the exposure automatically using the electronic shutter and gain. For the iris adjustment, select the F number from the Iris drop-down list.

Manual: Select the electronic shutter, iris and gain from the drop-down list for each control.

Back light compensation

Select **On** to activate the backlight compensation, or **Off** to deactivate it.

Shutter

Select the electronic shutter speed from among the following:
SNC-Z20N:
1/10000, **1/6000**, **1/4000**, **1/3000**, **1/2000**, **1/1500**, **1/1000**, **1/725**, **1/500**, **1/350**, **1/250**, **1/180**, **1/125**, **1/100**, **1/90**, **1/60**, **1/30**, **1/15**, **1/8**, **1/4**, **1/2**, **1** (seconds).
SNC-Z20P:
1/10000, **1/6000**, **1/3500**, **1/3000**, **1/2500**, **1/1750**, **1/1250**, **1/1000**, **1/600**, **1/420**, **1/300**, **1/215**, **1/150**, **1/120**, **1/100**, **1/75**, **1/50**, **1/25**, **1/12**, **1/6**, **1/3**, **1/2**, **1** (seconds).

Iris

Select the iris (F number) from among the following:
F1.4, **F1.6**, **F2**, **F2.4**, **F2.8**, **F3.4**, **F4.0**, **F4.8**, **F5.6**, **F5.8**, **F8.0**, **F9.6**, **F11**, **F14**, **F16**, **F19**, **F22**, **Close**.

Gain

Select the gain (dB) from among the following:
-3 dB, **0 dB**, **2 dB**, **4 dB**, **6 dB**, **8 dB**, **10 dB**, **12 dB**, **14 dB**, **16 dB**, **18 dB**, **20 dB**, **22 dB**, **24 dB**, **26 dB**, **28 dB**

Note

When the shutter speed is set to **1 sec** or **1/2 sec** in the **Shutter priority** or **Manual** mode, set the Focus mode menu and the White balance mode menu to **Manual**.

Exposure compensation

When the Exposure mode menu is set to **Full auto**, **Shutter priority** or **Iris priority**, select **On** to activate the exposure compensation, or **Off** to deactivate it.
When it is set to **On**, select the EV value from among the following:
+1.75, **+1.5**, **+1.25**, **+1**, **+0.75**, **+0.5**, **+0.25**, **0**, **–0.25**, **–0.5**, **–0.75**, **–1**, **–1.25**, **–1.5**, **–1.75 (EV)**

Saturation

Select the saturation in 7 steps, from **–3** to **3**.
Selecting **3** gives the image with the highest saturation.

Note

The Saturation setting is effective for the computer image only. (It is not effective for the video signal output.)

Sharpness

Select the sharpness in 16 steps, from **1** to **16**.
Selecting **16** gives the image with the highest sharpness.

Contrast

Select the contrast in 7 steps, from **–3** to **3**.
Selecting **3** gives the image with the highest contrast.

Note

The Contrast setting is effective for the computer image only. (It is not effective for the video signal output.)

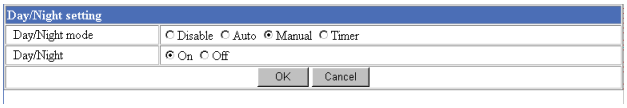
Camera reset

Click **Apply**, and "Camera reset OK?" appears. Click **OK** on the dialog to reset the camera settings on the Camera setting page to the factory settings.

Zoom Position

Click **Store** to store the current zooming position in the memory of the camera. When the power is turned on next time, the stored zooming position is recalled.

Day/Night setting Section



Day/Night mode

Select the Day/Night mode that selects the IR (infrared) cut filter operation mode from among **Disable**, **Auto**, **Manual** and **Timer**.
After selecting the mode, click **OK** to update the camera to the selected mode.

Disable: The Day mode is always set.

Auto: The Day/Night mode is set automatically. It is normally set in the Day mode and changes to the Night mode in a dark place.

Note

The Day/Night mode is not switched to Night mode automatically when **Exposure mode** is set to **Shutter priority**, **Iris priority** or **Manual** in the Camera setting Section.

Manual: Set the Day/Night mode manually.
If you select **Manual**, the Day/Night On/Off menu appears. Select **On** to set to the Night mode, and **Off** to the Day mode. You can also selcect the Day/Night mode from the trigger control parts (see page 11).

Timer: Set the Day/Night mode using the timer.
If you select **Timer**, the Schedule No. menu appears at the bottom. Select the schedule so that the Day/Night mode is normally set to the Day mode, and it enters the Night mode at the start time of the schedule and returns to the Day mode at the end time.

Tip

If the Focus mode menu is set to **Manual**, the ONE PUSH AF function automatically operates when the Day mode and the Night mode are switched.

Schedule No.

When the Day/Night mode menu is set to **Timer**, click the check box of the desired schedule No.1 to 6 to activate the Day/Night mode.
To check the contents of the schedule, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

OK/Cancel

See "Buttons common to every setting page" on page 14.

Camera control mode setting Section

You can set the operation mode for zooming using the TELE and WIDE buttons (see page 10), and for manual focusing using the NEAR and FAR buttons (see page 10).

Mode

Select the operation mode of the mouse.

Normal: When you click the mouse button, the camera starts zooming operation, or the focus adjustment starts, and the operation/adjustment continues while you hold down the mouse button. To stop the operation/adjustment, release the mouse button.

Step: Each time you click the mouse button, the camera starts zooming or the focus adjustment operates by a transition level determined by Level.
If you keep the mouse button held down for more than 1 second, the operation mode is temporarily changed to Normal. When you release the mouse button, the camera operation/adjustment stops and the Step mode is restored.

Level

Select the focus adjustment of the camera operation by clicking the mouse button once. This section is effective when Mode is set to Step.

Zoom: Select the camera transition level from **1** to **10** by clicking the TELE or WIDE button for zooming (see page 10). Selecting **10** gives the maximum transition level.

Focus: Select the focus adjustment transition level from **1** to **10** by clicking the FAR or NEAR button for manual focusing (see page 10). Selecting **10** gives the maximum transition level.

Note

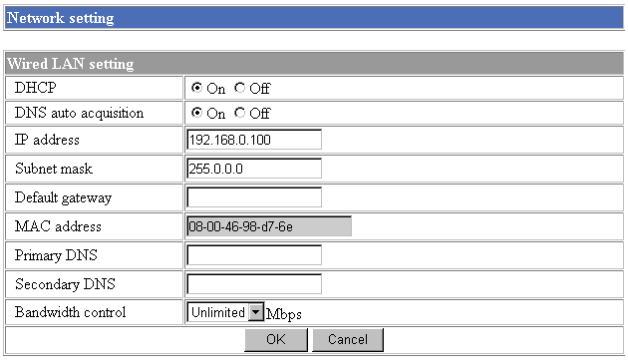
When you have changed the Mode or Level setting, click the Control button on the menu section to update the setting on the image control section.

Configuring the Network — Network setting Page

When you click **Network** on the Administrator menu, the Network setting page appears.
Use this page to configure the network to connect the camera and the computer.

Wired LAN setting Section

This section provides the menus for connecting the camera through the Ethernet.



DHCP

Select **On** to assign the IP address to the camera automatically. When you have assigned a proper IP address to the camera, select **Off**.

Note

When you set DHCP to **On**, make sure that there is an DHCP server on the network.

DNS auto acquisition

When DHCP is set to **On**, select if the IP address of the DNS server is assigned automatically or not. Select **On** to assign the IP address of the DNS server automatically.

IP address

Type the IP address of the camera.

Subnet mask

Type the subnet mask.

Default gateway

Type the default gateway.

MAC address

Displays the MAC address of the camera.

Primary DNS

Type the IP address of the primary DNS server.

Secondary DNS

Type the IP address of the secondary DNS server, if necessary.

Bandwidth control

Limits the data communication bandwidth of the camera.
You can select from among the following:
Unlimited, **0.5**, **0.6**, **0.7**, **0.8**, **0.9**, **1.0**, **2.0**, **3.0**, **4.0**, **5.0**, **6.0**, **7.0**, **8.0** (Mbps)
Select **Unlimited** when you do not want to limit the bandwidth.

Notes

- If you limit the bandwidth, the camera performance may be affected, for example, the frame rate of image display may be reduced.
- The actual bandwidth may differ from the selected option depending on the network environments.

OK/Cancel

See “Buttons common to every setting page” on page 14.

Wireless LAN setting Section

This section provides the menus for connecting the camera through a wireless network, with the specified wireless LAN card inserted into the PC card slot of the camera.
Read the Operation Manual and Installation Guide of the wireless LAN card together with this guide.

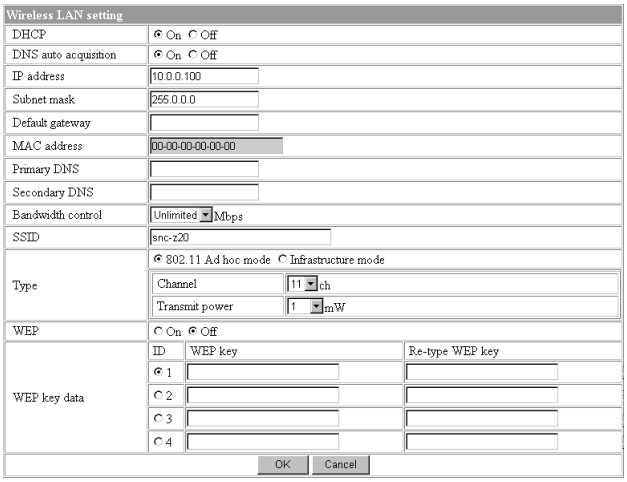
Note

If you use the wireless function of this unit, set a network address defined by the IP address, subnet mask and default gateway in the Wireless LAN setting Section. In this case, the network address should be different from the priority connection set in the Wired LAN setting Section.

Verified wireless LAN adapter card

Cisco Aironet 350 Series Client Adapter: AIR-PCM352

For details on the wireless LAN card, consult your authorized Sony dealer or the store where you purchased the product.



DHCP

Select **On** to assign the IP address to the camera automatically. When you have assigned a proper IP address to the camera, select **Off**.

Note

When you set DHCP to **On**, make sure that there is an DHCP server on the network.

DNS auto acquisition

When DHCP is set to **On**, select if the IP address of the DNS server is assigned automatically or not. Select **On** to assign the IP address of the DNS server automatically.

IP address

Type the IP address of the camera.

Subnet mask

Type the subnet mask.

Default gateway

Type the default gateway.

MAC address

Displays the MAC address of the wireless LAN card inserted into the PC card slot of the camera. If no card is inserted, 00-00-00-00-00-00 is displayed.

Primary DNS

Type the IP address of the primary DNS server.

Secondary DNS

Type the IP address of the secondary DNS server, if necessary.

Bandwidth control

Limits the data communication bandwidth for the wireless interface of the camera.
You can select from among the following:
Unlimited, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 2.0, 3.0 (Mbps)
Select **Unlimited** when you do not want to limit the bandwidth.

SSID

Type the ID to identify the wireless network you want to access using up to 32 ASCII characters (upper and lower cases).
For your security, be sure to change the factory setting.

Type

Select the network connection type **802.11 Ad hoc mode** or **Infrastructure mode**. When you select **802.11 Ad hoc mode**, specify the wireless channel and the maximum transmission power.

Note

Specify the channel and transmission power conforming to the regulations of your country or region. For details, refer to the Operation Manual and Installation Guide of the wireless LAN card.

WEP

Select **On** when you use the WEP (Wired Equivalent Privacy) keys, or **Off** when you do not use it.
The WEP key data settings are valid only when the WEP menu is set to **On**.

WEP key data

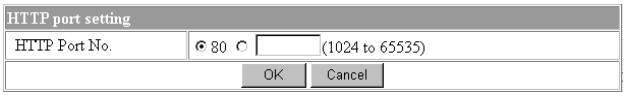
Specify up to 4 WEP keys. The length of a WEP key is 40 or 104 bit. A 104-bit WEP key has a higher security level than a 40-bit key. You can type the WEP key either in hexadecimal numbers (0 to 9 and A to F) or ASCII characters.
When the Type menu is set to **Infrastructure mode**, the WEP key should be the same as that of the access point.
When the Type menu is set to **802.11 Ad hoc mode**, the WEP key should be the same as that of the communication client.

Notes

- Before removing the wireless LAN card from the camera, turn off the power of the camera.
- If a setting either in the Wired LAN setting section or the Wireless LAN setting section has changed, both the Ethernet and wireless interfaces are disconnected and initialized.
- The throughput of the data transmission/reception via the Ethernet may decrease when the wireless LAN card is in use.

HTTP port setting Section

You can set the port number for the HTTP server on the camera.



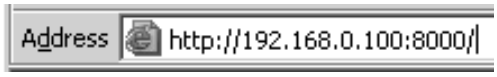
HTTP port No.

Normally select **80**. If you want to use a port number other than 80, select the text box and type a port number between 1024 and 65535.

Note

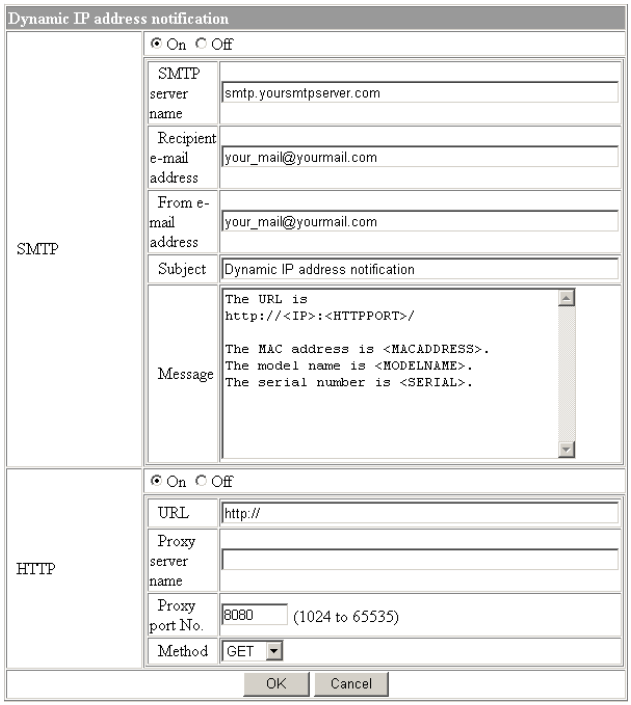
When you have set the HTTP port No. to a number other than 80 on the Network setting page or in the Setup Program, access the camera by typing the IP address of the camera again on the web browser, as follows:

Example: when HTTP port No. is set to 8000



Notifying the IP Address — Dynamic IP address notification Section

When the DHCP menu is set to **On**, you can send the notification of the completion of the network settings (Wired LAN settings and Wireless LAN settings) using the SMTP or HTTP protocol.



SMTP

Select **On** to send an E-mail when the DHCP setting is completed.

SMTP server name

Type the name or IP address of the SMTP server you want to use for sending an E-mail, up to 64 characters.

Recipient e-mail address

Type the recipient E-mail address up to 64 characters. You can specify only one recipient E-mail address.

From e-mail address

Type the E-mail address that is displayed in the From field of E-mails, up to 64 characters. This is used as the reply address or the address for the system mail from the mail server.

Subject

Type the subject/title of the E-mail up to 64 characters.

Message

Type the text of the E-mail up to 384 characters. You can describe the information of the acquired IP address, etc. using the special tags mentioned below.

HTTP

Select **On** to output a command to the HTTP server when the DHCP setting is completed. Using this function, you can configure a useful system, for example, to view the access log stored in the HTTP server or start an external CGI program.

URL

Specify the URL to send HTTP commands, up to 256 characters. The URL is normally described as follows:

http://ip_address[:port]/path?parameter

ip_address: Type the IP address or host name of the host to which you want to connect.
[:port]: Specify the port number to which you want to connect. If you want to use Well-known port number 80, you do not need to input this value.
path: Type the command name.
parameter: Type the command parameter if necessary. You can use the special tags mentioned below for the parameters.

Proxy server name

When you send HTTP commands via a proxy server, type the name or IP address of the proxy server, up to 64 characters.

Proxy port No.

Specify the port number when you send HTTP commands via the proxy server. Set the port number between 1024 and 65535.

Method

Select the HTTP method **GET** or **POST**.

About the special tags

You can use the following five special tags to allow the notification of the settings acquired by the DHCP, such as an IP address. Type the tags in the parameter section of the URL that you describe in the Message field of the SMTP menu.

<IP>

Use this tag to embed the IP address acquired by the DHCP in the text or parameter.

<HTTPPORT>

Use this tag to embed the specified HTTP server port number in the text or parameters.

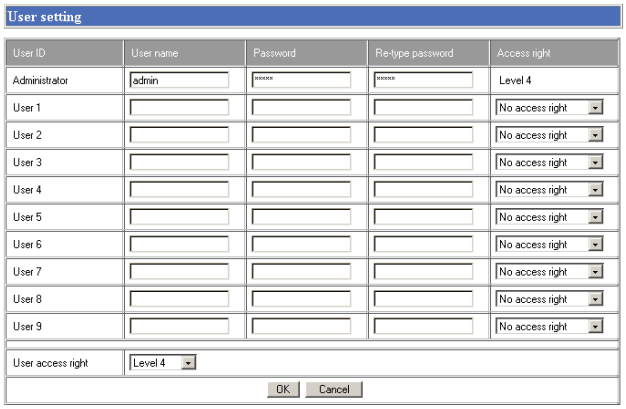
<MACADDRESS>
Use this tag to embed the MAC address of the interface which IP address you have acquired by the DHCP, in the text or parameter.

<MODELNAME>
Use this tag to embed the camera's model name (SNC-Z20N or SNC-Z20P) in the text or parameter.

<SERIAL>
Use this tag to embed the camera's serial number in the text or parameter.

Setting the User
— User setting Page

When you click **User** on the Administrator menu, the User setting page appears.
Use this page to set the user names and passwords of Administrator and up to 9 kinds of users (User 1 to User 9), and the access right of each user.



Administrator, User 1 to 9
Specify **User name**, **Password**, **Re-type password** and **Access right** for each user ID.

User name
Type a user name between 4 and 16 characters.

Password
Type a password between 4 and 16 characters.

Re-type password
To confirm the password, type the same characters as you typed in the Password box.

Note

If you type an incorrect character in the User name, Password or Re-type password box, a message like the following appears. In this case, click **OK** to cancel the message and re-type the correct character.

Access right

Select the access right for each user from the drop-down list. You can select from **Level 1** to **Level 4**. The rights afforded to each access right are as follows:

Level 1: Allows monitoring of the camera image (including some operations for monitoring).

Level 2: Allows monitoring of the camera image and camera operations.

Level 3: Allows monitoring of the camera image, camera operations and manual application operations.

Level 4: Allows all the access right as Administrator.

No access right: Use this option when you want to prohibit access to the camera temporarily.

User access right

Select the level of the access right to require user authentication.
The authentication dialog will appear where user authentication is required.

Level 1: Performs user authentication when a user accesses the following pages: main viewer page (page 8), Camera control parts (page 10), Trigger control parts (page 11) or Administrator menu page (page 13).

Level 2: Performs user authentication when a user accesses the following pages: Camera control parts, Trigger control parts or Administrator menu page. No user authentication is required to display the main viewer page.

Level 3: Performs user authentication when a user accesses the following pages: Trigger control parts or Administrator menu page.
No user authentication is required to display the main viewer page or the Camera control parts.

Level 4: Performs user authentication when a user accesses the Administrator menu page only.
No user authentication is required to display the other pages.

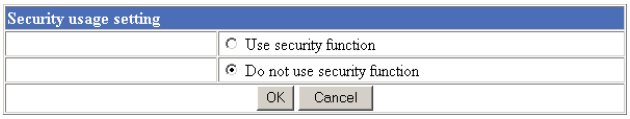
OK/Cancel

See “Buttons common to every setting page” on page 14.

Setting the Security — Security setting Page

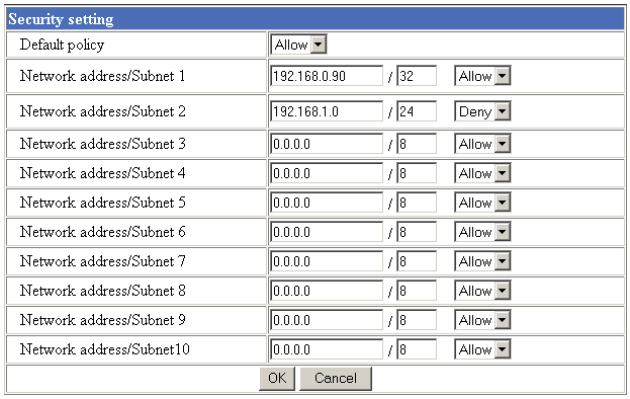
When you click **Security** on the Administrator menu, the Security setting page appears.
Use this page to limit the computers that can access the camera.

Activating/Deactivating the Security Function — Security usage setting Page



To activate the security function, select **Use security function**, then click **OK**. The Security setting page appears.
If you do not use the security function, select **Do not use security function**, then click **OK**.

Setting the Security Function —Securing setting Page



Default policy

Select the basic policy of the limit from **Allow** and **Deny**.
If you select **Allow**, you will basically allow access to the camera and only deny access from the computers specified on the Network address/Subnet 1 to Network address/Subnet 10 menus below.
If you select **Deny**, you will basically deny access to the camera, and only allow access from the computers specified on the Network address/Subnet 1 to Network address/Subnet 10 menus.

Network address/Subnet 1 to Network address/Subnet 10

Type the IP addresses and subnet mask values you want to allow or deny access to the camera.
You can specify up to 10 IP addresses and subnet mask values. For a subnet mask, type 8 to 32.
To temporarily cancel the Default Policy for a specified IP address/subnet mask, select **Allow** or **Deny** from the drop-down list on the right.

Tip

The subnet mask value represents the bit number from the left of the network address.
For example, the subnet mask value for 255.255.255.0 is 24.
If you set "192.168.0.0/24, Allow," you can allow access from the computers having an IP address between 192.168.0.0 and 192.168.0.255.

Note

You can access the camera even from a computer having the IP address whose access right is set to **Deny**, if you enter the user name and password set for Level 4 access right on the authentication dialog displayed.

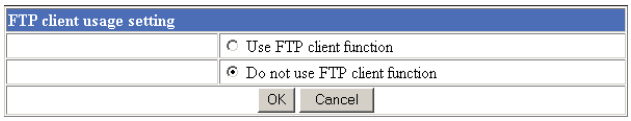
OK/Cancel

See "Buttons common to every setting page" on page 14.

Sending Images to FTP Server
— FTP client setting Page

When you click **FTP client** on the Administrator menu, the FTP client setting page appears.
Use this page to set up for capturing and sending still images to an FTP server. You can capture a still image at the moment when a trigger occurs by an external sensor input, the built-in activity detection function or a manual trigger button, or capture sequenced still images before and after the trigger. The captured still image(s) is sent to the FTP server (FTP client function). You can also send still images periodically.

Activating/Deactivating the FTP Client Function
— FTP client usage setting Page

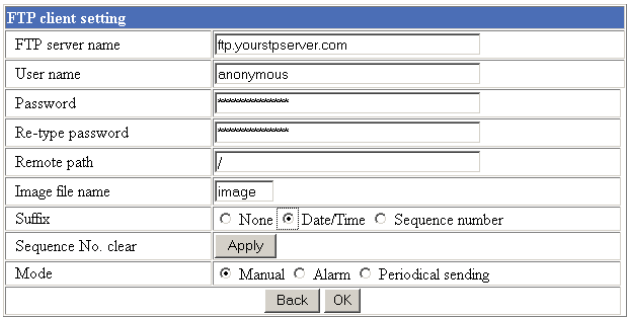


To activate the FTP client function, select **Use FTP client function** and click **OK**. The FTP client setting page appears.
When you do not use the FTP client function, select **Do not use FTP client function** and click **OK**.

Note

The frame rate and operability on the main viewer page may decrease while a file is being transmitted by the FTP client function.

Setting the FTP Client Function
— FTP client setting Page



FTP server name

Type the FTP server name to upload still images up to 64 characters, or the IP address of the FTP server.

User name

Type the user name for the FTP server.

Password

Type the password for the FTP server.

Re-type password

To confirm the password, type the same characters as you typed in the Password box.

Remote path

Type the path to the destination up to 64 characters.

Image file name

Type the basic file name you want to assign to the images when sending to the FTP server. You can use up to 6 alphanumeric, - (hyphen) and _ (underscore) for naming.

Suffix

Select the suffix to add to the file name.

None: No suffix is added. The basic file name is assigned to the image to be sent to the FTP server.

Date/Time: The date/time suffix is added to the file name.
The date/time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits), second (2 digits) and consecutive number (2 digits), thus 14-digit number is added to the file name.

Sequence number: A consecutive number is added to the basic file name. A number of up to 10 digits between 0000000000 and 4294967295 is added to the file name.

Tip

When the Mode menu is set to **Alarm**, the type of alarm and the capture timing to the alarm are added to the suffix.
Type of alarm: **S1** (Sensor), **AD** (Activity Detection)
Capture timing: **PR** (Pre-alarm), **JT** (Just alarm), **PT** (Post-alarm)

Sequence No. clear

Click **Apply** to reset the Sequence number suffix to 0.

Mode

Select the mode of the FTP client function.

Manual: Sends still images to the FTP server manually.
After selecting **Manual**, click **OK**. The FTP client function mode is set to **Manual**.
In this mode, when you click the (Trigger) button on the main viewer page, a still image is captured and sent to the FTP server. (See "Controlling the Application Manually" on page 11.)

Alarm: Sends still images to the FTP server by synchronizing with an external sensor input or the built-in activity detection function. When you select **Alarm**, the Alarm mode setting section appears (see page 28).

Note

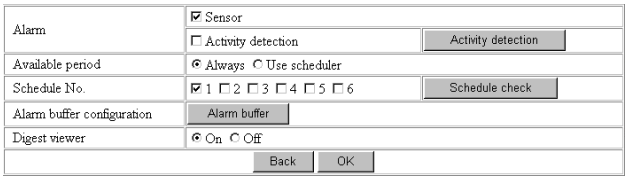
If the Suffix menu is set to **None**, you cannot select the **Alarm** mode. When you want to use the Alarm mode, set the Suffix menu to **Date/Time** or **Sequence number**.

Periodical sending: Sends still images to the FTP server periodically. When you select **Periodical sending**, the Periodical sending mode setting section appears (see page 29).

Back/OK

See "Buttons common to every setting page" on page 14.

Alarm mode setting Section



Alarm

Select the alarm to link the FTP client function. If the selected alarm is detected, the still images before and after the alarm are captured sequentially and sent to the FTP server.

Sensor: External sensor connected to sensor input of the camera I/O port

Activity detection: The activity detection function built in the camera
To set the activity detection function, click **Activity detection**. The Activity detection setting page appears (see page 41).

Available period

Select the period for which the selected alarm mode is available.

Always: The selected alarm mode is available any time.

Use scheduler: The selected alarm mode is available according to the schedule selected in Schedule No. below.

Schedule No.

When **Use scheduler** is selected on the Available period menu, select the schedule you want the selected alarm mode being available.

Click to select the check box(es) **1** to **6**. You can select multiple schedules.

To check the contents of schedules, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

Alarm buffer configuration

Click **Alarm buffer** to display the Alarm buffer setting page.

For details, see "Setting the Alarm Buffer — Alarm buffer setting Page" on page 39.

Note

If an alarm occurs during the Alarm buffer processing, that alarm is ignored.

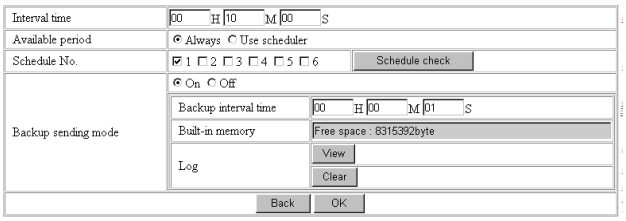
Digest viewer

If you select **On**, an HTML file (.html) and a Java Script file (.js) are added each time the selected alarm is detected.

When you open the added HTML file using a general browser, the digest viewer runs and you can view the still pictures in the alarm buffer in sequence (quasi-animation).

See "Operating the Digest Viewer" on page 30.

Periodical sending mode setting Section



Interval time

Type the interval at which you want to send images to the FTP server periodically. You can set the hour (H), minutes (M) and seconds (S) between 1 second and 24 hours (one day).

Note

The actual interval may be longer than the set value, depending on the image size and the network environments.

Available period

Select the period for which the periodical sending mode is available.

Always: The periodical sending mode is available any time.

Use scheduler: The periodical sending mode is available according to the schedule selected in Schedule No. below.

Schedule No.

When **Use scheduler** is selected on the Available period menu, select the schedule you want the perdiodical sending mode being available.

Click to select the check box(es) **1** to **6**. You can select multiple schedules.

To check the contents of schedules, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

Backup sending mode

You can temporarily store (back up) still image data in the built-in memory (about 8 MB) when uploading to the FTP server is impossible due to a network failure, etc.

When the network recovers, the backup image data is uploaded to the FTP server.

This function is available only when **Periodical sending** is selected.

Select **On** to enable the Backup function.

Notes

- The Backup sending mode cannot be set to **On** when the image memory function (page 38) is activated. When you want to use the Backup function, deactivate the image memory function.
- When the backup memory capacity is full or the backup images exceed 2,560, new image data will not be stored. (The previously stored images are retained.)
- Backup image data is erased when the power of the camera is turned off.

Backup interval time

Specify the interval at which you want to send the backup image data to the FTP server. You can set a value between 1 second and the time set on the Interval time menu.

Note

The actual interval may be longer than the set value depending on image size and the network environments.

Built-in memory

Displays the built-in memory space.

Log

Click **View** to display the Backup FTP log page to show network failures and event information.
Click **Clear** to delete the log contents.

Note

The log contents are cleared when the power of the camera is turned off.

Operating the Digest Viewer

If you download the HTML file, the Java Script file and the JPEG image files to your computer and open HTML file using a general browser, the digest viewer is displayed on the screen.

Digest viewer

Number

Displays the consecutive still image number.

Date

Displays the date and time when the image is captured.

Image view size

Select the image size to be displayed on the digest viewer from among the following: **Auto**, **160 × 120**, **320 × 240**, **640 × 480**
When you select **Auto**, the image is displayed in the size specified with the Image size menu on the Camera setting page (see page 17).

Play speed

Select the play speed from **1** to **5**. **5** is the highest speed.

Note

Whether you can play the image at a high speed depends on the performance of your computer. You may need to select a lower speed.

Play

Click this button to start playing. Playing stops when the last still image is displayed.

Next

When a still image is displayed, click this button to display the next numbered still image.

Prev (previous)

When a still image is displayed, click this button to display the previous numbered still image.

Still

Click this button to stop playing temporarily.

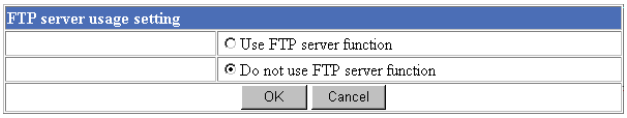
Stop

Click to stop playing. The still image of number 1 is displayed.

Downloading Images from the Camera
— FTP server setting Page

When you click **FTP server** on the Administrator menu, the FTP server setting page appears.
Use this page to set up for the FTP server function which finds a specified still image file stored in the built-in memory of the camera (about 8 MB) or the ATA memory card inserted into the PC card slot, or download the still image file from the card.

Activating/Deactivating the FTP Server Function — FTP server usage setting Page



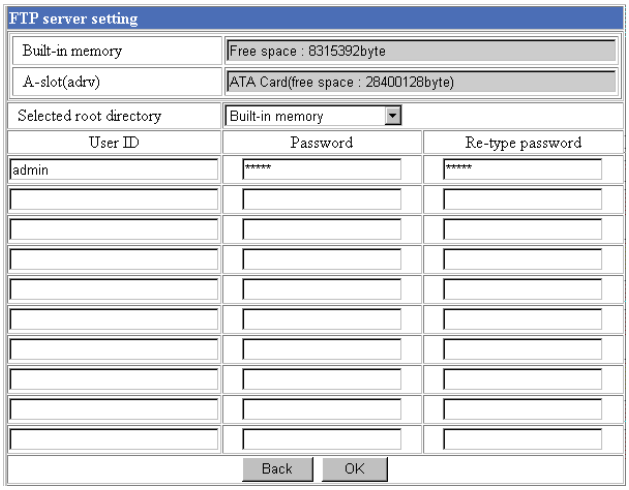
To activate the FTP server function, select **Use FTP server function** and click **OK**. The FTP server setting page appears.
When you do not use the FTP server function, select **Do not use FTP server function** and click **OK**.

Notes

- The frame rate and operability on the main viewer page may decrease when the FTP server function is used.
- Deactivate the FTP server function before removing the ATA memory card or turning off the power of the camera with the ATA memory card inserted.

Setting the FTP Server Function — FTP server setting Page

You can register up to 10 user names and passwords to allow logging in the camera using the FTP client software of the computer.



Built-in memory

Displays the free space of the built-in memory of the camera.

A-slot (adrv)

Displays the type of the PC card inserted into the PC card slot and its free card space.

Selected root directory

Select from the drop-down list, the directory under which the image file you want to find or download is stored.
Built-in memory: Built-in memory of the camera
ATA memory card: ATA memory card inserted into PC card slot of the camera

User ID

Type a user name between 4 and 16 characters.

Password

Type a password between 4 and 16 characters.

Re-type password

To confirm the password, type the same characters as you typed in the Password box.

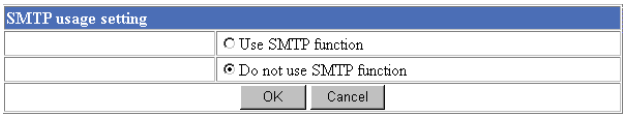
Back/OK

See “Buttons common to every setting page” on page 14.

Sending an Image via E-mail — SMTP setting Page

When you click **SMTP** on the Administrator menu, the SMTP setting page appears.
Use this page to set up for the SMTP function that can capture and send a still image attached to an E-mail. You can capture a still image at the moment when a trigger occurs by an external sensor input, the built-in activity detection function or a manual trigger button. The captured still image is sent as an atttachment of the E-mail. You can also send a still image periodically.

Activating/Deactivating the SMTP Function — SMTP usage setting Page

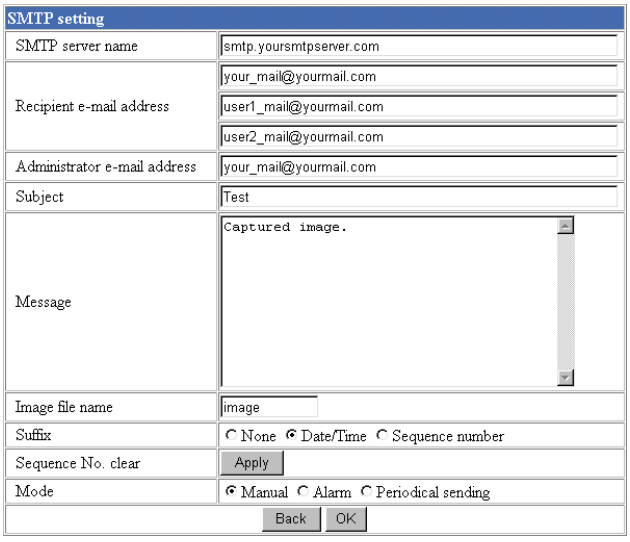


To activate the SMTP function, select **Use SMTP function** and click **OK**. The SMTP setting page appears.
When you do not use the SMTP function, select **Do not use SMTP function** and click **OK**.

Notes

The frame rate and operability on the main viewer page may decrease while an image file is being transmitted via an E-mail.

Setting the SMTP Function — SMTP setting Page



SMTP server name

Type the SMTP server name up to 64 characters, or the IP address of the SMTP server.

Recipient e-mail address

Type the recipient E-mail address up to 64 characters. You can specify up to three recipient E-mail addresses.

Administrator e-mail address

Type the Administrator e-mail address up to 64 characters.
This address is used for reply mail and sending error messages from the camera.

Subject

Type the subject/title of the E-mail up to 64 characters.

Message

Type the text of the E-mail up to 384 characters. (A line break is equivalent to 2 characters.)

Image file name

Type the basic file name you want to assign to the image to attach an E-mail. You can use up to 6 alphanumeric, - (hyphen) and _ (underscore) for naming.

Suffix

Select the suffix to add to the file name.
None: No suffix is added. The basic file name is assigned to the image to be sent via an E-mail.
Date/Time: The date/time suffix is added to the file name.
The date/time suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits) and second (2 digits) , thus 12-digit number is added to the file name.
Sequence number: A consecutive number is added to the basic file name. A number of up to 10 digits between 0000000000 and 4294967295 is added to the file name.

Sequence No. clear

Click **Apply** to reset the Sequence number suffix to 0.

Mode

Select the mode of the SMTP function.

Manual: Sends a still image attached to an E-mail manually. After selecting **Manual**, click **OK**. The SMTP function mode is set to **Manual**.
In this mode, when you click the (Trigger) button on the main viewer page, a still image is captured and sent via an E-mail. (See "Controlling the Application Manually" on page 11.)

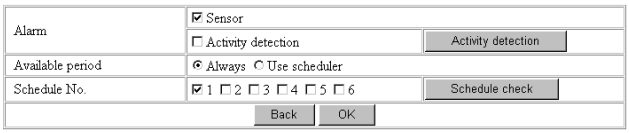
Alarm: Sends a still image via an E-mail by synchronizing with an external sensor input or the built-in activity detection function. When you select **Alarm**, the Alarm mode setting section appears (see page 33).

Periodical sending: Sends a still image via an E-mail periodically. When you select **Periodical sending**, the Periodical sending mode setting section appears (see page 33).

Back/OK

See "Buttons common to every setting page" on page 14.

Alarm mode setting Section



Alarm

Select the alarm to link the SMTP function. If the selected alarm is detected, a still image is captured and sent via an E-mail.
Sensor: External sensor connected to sensor input of the camera I/O port
Activity detection: The activity detection function built in the camera.
To set the activity detection function, click **Activity detection**. The Activity detection setting page appears (see page 41).

Note

The image that can be attached to an E-mail is the one captured at the moment when an alarm is input. If the next alarm occurs while the captured image is being processed, that alarm is ignored.

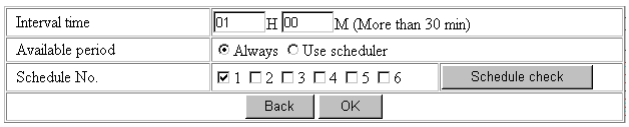
Available period

Select the period for which the alarm mode is available.
Always: The alarm mode is available any time.
Use scheduler: The alarm mode is available according to the schedule selected on the Schedule No. menu below.

Schedule No.

When **Use scheduler** is selected on the Available period menu, select the schedule you want the alarm mode being available.
Click to select the check box(es) **1** to **6**. You can select multiple schedules.
To check the contents of schedules, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

Periodical sending mode setting Section



Interval time

Type the interval at which you want to send an E-mail with a still image periodically. You can set the hour (H) and minutes (M) between 30 minutes and 24 hours (one day).

Available period

Select the period for which the periodical sending mode is available.
Always: The periodical sending mode is available any time.
Use scheduler: The periodical sending mode is available according to the schedule selected on the Schedule No. menu below.

Schedule No.

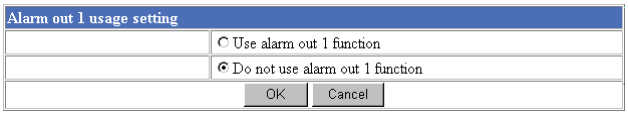
When **Use scheduler** is selected on the Available period menu, select the schedule you want the perdiodical sending mode being available.
Click to select the check box(es) **1** to **6**. You can select multiple schedules.
To check the contents of schedules, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

Setting the Alarm Out 1 or 2

— Alarm out 1 or 2 setting Page

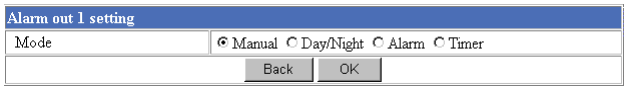
When you click **Alarm out 1** on the Administrator menu, the Alarm out 1 setting page appears. When you click **Alarm out 2** on the Administrator menu, the Alarm out 2 setting page appears.
Use these pages to set up for the Alarm out function that controls the alarm out 1 or alarm out 2 of the I/O port located on the rear the camera. You can control the alarm out when a trigger occurs by an external sensor input, the built-in activity detection function, a manual trigger button, the Day/Night function or the timer.
The setting items for alarm out 1 and alarm out 2 are the same. This section explains how to set alarm out 1 as an example.

Activating/Deactivating the Alarm Out 1 Function — Alarm out 1 usage setting Page



To activate the Alarm out 1 function, select **Use alarm out 1 function** and click **OK**. The Alarm out 1 setting page appears.
When you do not use the Alarm out 1 function, select **Do not use alarm out 1 function** and click **OK**.

Setting the Alarm Out 1 Function — Alarm out 1 setting Page



Mode

Select the mode of the Alarm out 1 function.

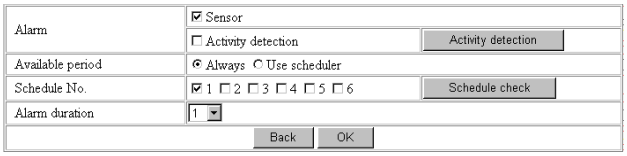
Manual: Controls the alarm out 1 manually.
In this mode, you can short-circuit and open the alarm out 1 by clicking the (Trigger) button on the main viewer page. (See "Controlling the Application Manually" on page 11.)

Day/Night: Controls alarm out 1 by synchronizing with the Day/Night function of the camera. When you select **Day/Night**, the **Day/Night setting** button appears. Click the button, and the Camera setting page appears and you can set the Day/Night function (see page 20).
In the Night mode, the relay corresponding to the alarm out 1 is short-circuited. In the Day mode, it is open.

Alarm: Controls alarm out 1 by synchronizing with an external sensor input or the built-in activity detection function. When you select **Alarm**, the Alarm mode setting section appears (see page 34).

Timer: Controls alarm out 1 by the timer. When you select **Timer**, the Timer mode setting section appears (see page 35).

Alarm mode setting Section



Alarm

Select the alarm to link the alarm out 1 function. If the selected alarm is detected, the alarm out 1 status changes.
Sensor: External sensor connected to sensor input of the camera I/O port
Activity detection: The activity detection function built in the camera.
To set the activity detection function, click **Activity detection**. The Activity detection setting page appears (see page 41).

Available period

Select the period for which the alarm mode is available.
Always: The alarm mode is available any time.
Use scheduler: The alarm mode is available according to the schedule selected on the Schedule No. menu below.

Schedule No.

When **Use scheduler** is selected on the Available period menu, select the schedule you want the alarm mode being available.
Click to select the check box(es) **1** to **6**. You can select multiple schedules.
To check the contents of schedules, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

Alarm duration

Select the duration for which the alarm output is short-circuited between 1 and 60 sec.

Timer mode setting Section

Schedule No.

Select the schedule you want to activate the alarm out 1 timer mode.
Click to select the check box(es) **1** to **6**. You can select multiple schedules.
The alarm out 1 is short-circuited at the start time of the selected schedule, and it switches to open at the end time.
To check the contents of schedules, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

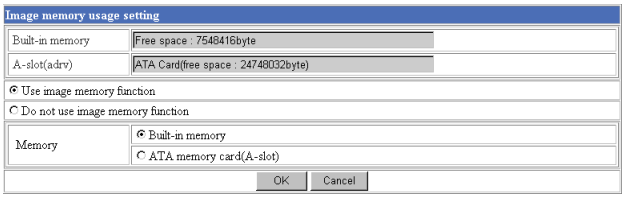
Recording Images in Memory

— Image memory setting Page

When you click **Image memory** on the Administrator menu, the Image memory setting page appears.
Use this page to set up for the image memory function which captures a still image and records it in the built-in memory of the camera (about 8 MB) or the ATA memory card. You can capture a still image at the moment when a trigger occurs by an external sensor input, the built-in activity detection function or a manual trigger button. The captured still image is recorded in the built-in memory or the ATA memory card. You can also record a still image periodically.
The recorded image file can be found or downloaded to the computer using the FTP server function. (See "Downloading Images from the Camera — FTP server setting Page" on page 31.)

For the verified cards, contact your authorized Sony dealer.

Activating/Deactivating the Image Memory Function — Image memory usage setting Page



Built-in memory

Displays the free space of the built-in memory of the camera.

A-slot

Displays the type of the PC card inserted into the PC card slot and its free card space."

Use image memory function/Do not use image memory function

To activate the Image memory function, select **Use image memory function** and click **OK**. The Image memory setting page appears.
When you do not use the Image memory function, select **Do not use image memory function** and click **OK**.

Memory

Select the memory you want to store the image to, from the drop-down list.

Built-in memory: Built-in memory of the camera (about 8 MB)

ATA memory card: ATA memory card inserted into PC card slot of the camera

Notes

- The image recorded in the built-in memory will be erased when the power of the camera is turned off.
- The frame rate and operability on the main viewer page may decrease during image storage.
- Deactivate the image memory function before removing the ATA memory card or turning off the power of the camera with the ATA memory card inserted.
- The image memory function cannot be activated if the Backup sending mode menu is set to **On**. To use the image memory function, set the Backup sending mode menu to **Off**.
- When you remove or insert a card, wait at least 10 seconds.

Recording an Image in the Selected Memory — Image memory setting Page

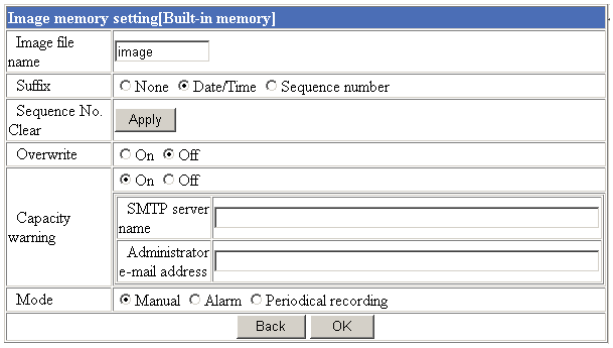


Image file name

Type the basic file name you want to assign to the images when saving in the memory. You can use up to 6 alphanumeric, - (hyphen) and _ (underscore) for naming.

Suffix

Select the suffix to add to the file name.

None: No suffix is added. The basic file name is assigned to the image to be recorded in memory.

Date/Time: The date/time suffix is added to the file name.

The date/timer suffix consists of lower two-digits of year (2 digits), month (2 digits), date (2 digits), hour (2 digits), minute (2 digits), second (2 digits) and consecutive number (2 digits), thus 14-digit number is added to the file name.

Sequence number: A consecutive number is added to the basic file name. A number of up to 10 digits between 0000000000 and 4294967295 is added to the file name.

Tip

When the Mode menu is set to **Alarm**, the type of alarm and the capture timing to the alarm are added to the suffix.

Type of alarm: **S1** (Sensor), **AD** (Activity Detection)

Capture timing: **PR** (Pre-alarm), **JT** (Just alarm), **PT** (Post-alarm)

Sequence No. clear

Click **Apply** to reset the Sequence number suffix to 0.

Overwrite

Select if you overwrite the file or not when there is insufficient memory space to record the image.

Select **On** to allow overwriting. The oldest file or folder is overwritten first.

Select **Off** to prohibit overwriting. In this case, a new file cannot be stored.

Capacity warning

Select **On** to send a warning mail to the Administrator when the built-in memory space is low or the memory is full due to activation of the image memory function.

Select **Off** if you do not want to send a warning mail.

If **On** is selected, the SMTP server name and Administrator e-mail address menus appear.

SMTP server name

Type the name or IP address of the SMTP server you want to use for sending the E-mail, up to 64 characters.

Administrator e-mail address

Type the E-mail address of the recipient of the warning mail (E-mail address of the Administrator), up to 64 characters.

Mode

Select the mode of the Image memory function.

Manual: Records a still image in the selected memory manually.

In this mode, when you click the (Trigger) button on the main viewer page, a still image is captured and recorded in the selected memory. (See “Controlling the Application Manually” on page 11.)

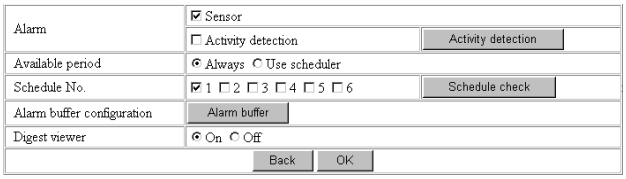
Alarm: Records a still image in the selected memory by synchronizing with an external sensor input or the built-in activity detection function. When you select **Alarm**, the Alarm mode setting section appears (see page 37).

Note

If the Suffix menu is set to **None**, you cannot select the **Alarm** mode. When you want to use the Alarm mode, set the Suffix menu to **Date/Time** or **Sequence number**.

Periodical recording: Records still images in the selected memory periodically. When you select **Periodical recording**, the Periodical recording mode setting section appears (see page 37).

Alarm mode setting Section



Alarm

Select the alarm to link the Image memory function. If the selected alarm is detected, a still image is captured and recorded in the selected memory.

Sensor: External sensor connected to sensor input of the camera I/O port

Activity detection: The activity detection function built in the camera.
To set the activity detection function, click **Activity detection**. The Activity detection setting page appears (see page 41).

Available period

Select the period for which the alarm mode is available.

Always: The alarm mode is available any time.

Use scheduler: The alarm mode is available according to the schedule selected in the Schedule No. menu below.

Schedule No.

When **Use scheduler** is selected on the Available period menu, select the schedule you want the alarm mode being available.
Click to select the check box(es) **1** to **6**. You can select multiple schedules.
To check the contents of schedules, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

Alarm buffer configuration

Click **Alarm buffer** to display the Alarm buffer setting page.
For details, see "Setting the Alarm Buffer — Alarm buffer setting Page" on page 39.

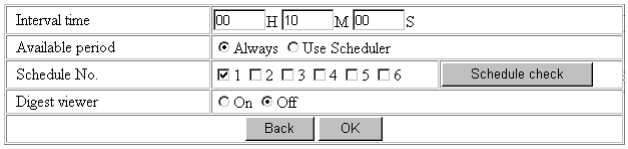
Note

If an alarm occurs during the Alarm buffer processing, that alarm is ignored.

Digest viewer

If you select **On**, an HTML file (.html) and a Java Script file (.js) are added each time the selected alarm is detected.
When you open the added HTML file using a general browser, the digest viewer runs and you can view the still pictures in the alarm buffer in sequence (quasi-animation).
See "Operating the Digest Viewer" on page 30.

Periodical recording mode setting Section



Interval time

Type the interval at which you want to record an image periodically. You can set the hour (H), minutes (M) and seconds (S) between 1 second and 24 hours (one day).

Note

The actual interval may be longer than the set value, depending on the image size and the recording conditions of the ATA memory card.

Available period

Select the period for which the periodical recording mode is available.

Always: The periodical recording mode is available any time.

Use scheduler: The periodical recording mode is available according to the schedule selected in the Schedule No. menu below.

Schedule No.

When **Use scheduler** is selected on the Available period menu, select the schedule you want the periodical recording mode being available.

Click to select the check box(es) **1** to **6**. You can select multiple schedules.
To check the contents of schedules, click **Schedule check**. (See "Setting the Schedule — Schedule setting Page" on page 40.)

Digest viewer

If you select **On**, an HTML file (.html) and a Java Script file (.js) are added every 100 files.
When you open the added HTML file using a general browser, the digest viewer runs and you can view the still pictures in the alarm buffer in sequence (quasi-animation).
See "Operating the Digest Viewer" on page 30.

Note

If the Suffix menu is set to **None**, you cannot select **On**. When you want to use the digest viewer, set the Suffix menu to **Date/Time** or **Sequence number**.

Back/OK

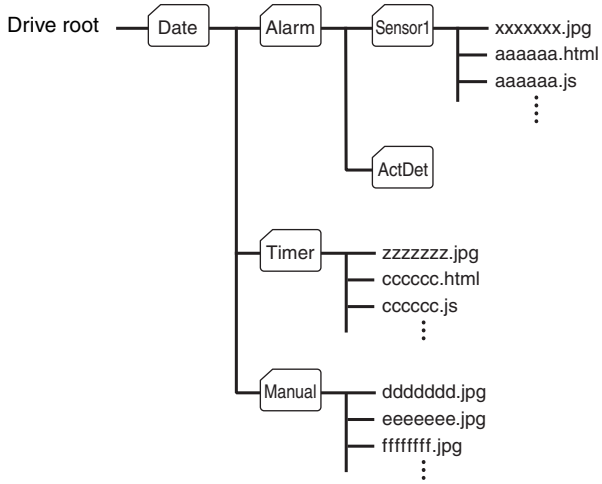
See "Buttons common to every setting page" on page 14.

Directory Structure of Image Memory

The images are recorded in the memory with the following directory structure.

ATA memory card (A-slot): Slot A
Built-in memory: Drive C

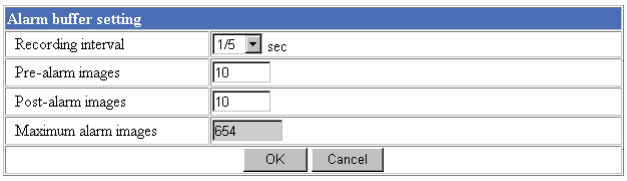
Slot A or drive C has the following directory structure.



A ▭ represents a folder created automatically. The Date folder has a 6-digit folder name consisting of the lower two digits of year (2 digits), month (2 digits) and date (2 digits) . The Sensor, and Act Det (activity detection) folders correspond to alarm modes. The Timer folder corresponds to the periodical recording mode. And, the Manual folder corresponds to the manual mode.
JPEG image files are stored in each folder. If the digest viewer is allowed, an HTML file (.html) and a Java Script file (.js) are created automatically at the time of each alarm event. For the periodical recording mode, an HTML file (.html) and a Java Script file (.js) are created automatically every 100 JPEG image files.

Setting the Alarm Buffer
— Alarm buffer setting Page

When you click **Alarm buffer** on the Administrator menu, the Alarm buffer Setting page appears.
Use this page to set up for the alarm buffer used in the FTP client function (see page 27) and the Image memory function (see page 35).



Recording interval

Select the interval (in seconds) at which you want to record an image in the alarm buffer.
You can select from among the following intervals:
SNC-Z20N:
1/30, **1/15**, **1/10**, **1/5**, **1/2**, **1**, **2**, **3**, **4**, **5**, **6**, **7**, **8**, **9**, **10** (seconds)
SNC-Z20P:
1/25, **1/12**, **1/8**, **1/5**, **1/2**, **1**, **2**, **3**, **4**, **5**, **6**, **7**, **8**, **9**, **10** (seconds)

Pre-alarm images

Type the number of images to be recorded before detecting an alarm (Pre-alarm).

Post-alarm images

Type the number of images to be recorded after detecting an alarm (Post-alarm).

Maximum alarm images

Displays the maximum number of images that can be recorded in the alarm buffer with the current image size and image quality.

Note

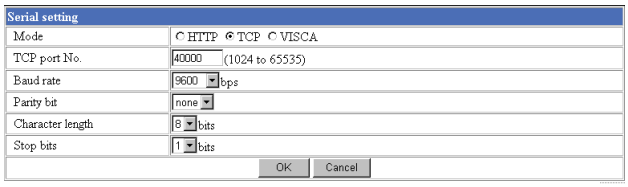
The number of Maximum alarm images differs depending on the Image size and Image quality settings on the Camera setting page.
Check the Maximum alarm images setting and set so that the total number of Pre-alarm images and Post-alarm images does not exceed the Maximum alarm images.
If you set both Pre-alarm images and Post-alarm images to **0**, only one image is recorded at the moment when an alarm is detected.

OK/Cancel

See “Buttons common to every setting page” on page 14.

Communicating Data via Serial Port
— Serial setting Page

When you click **Serial** on the Administrator menu, the Serial setting page appears.
Use this page to set up for the date communication via the serial interface. You can input data from a computer via the network to the camera, and output it to an external serial interface for controlling a peripheral device, or, vice versa, input data from a peripheral device to the camera via the external serial interface and output it to the computer via the network.
Perform the setting to match the peripheral device you connect to the camera.
The external serial interface of this camera conforms to RS232C standards.



Mode

Select the port through which you send and receive data via the network: **HTTP** (HTTP Generic Driver) or **TCP** (TCP Generic Driver), or select if the camera is controlled using the VISCA protocol.

HTTP: When you select **HTTP**, you can realize data communication by creating an HTML program with CGI commands embedded in the computer.
For the CGI commands, consult your authorized Sony dealer.

TCP: When you select **TCP**, specify the TCP port number on the TCP Port No. menu, and you can send and receive data that is input to or output from the external serial communication port. You can check the connection to the camera using a DOS command “telnet [host name] [assigned port number]”.

VISCA: When you select **VISCA**, you can control the camera using the VISCA protocol.
For the command list of the VISCA protocol, consult your authorized Sony dealer.

Notes

- When you control the camera via the serial port using the VISCA protocol, match the communication settings with those on the connected controller.
- This camera does not support the daisy chain connection of VISCA devices. Connect the camera and the controller one for one.

TCP port No.

When you select **TCP** on the Mode menu, type the port number for the TCP port (TCP Generic Driver). Set a port number other than Well-Known port numbers (0 to 1023).

Baud rate

Select the communication baud rate for the peripheral device connected to the serial interface. You can select from among the following baud rates:
38400, **19200**, **9600**, **4800**, **2400**, **1200**, **600**, **300** (bps)

Parity bit

Select the parity bit for the peripheral device connected to the serial interface: **None**, **Odd** or **Even**.

Character length

Select the character length for the peripheral device connected to the serial interface: **7** or **8** (bits).

Stop bits

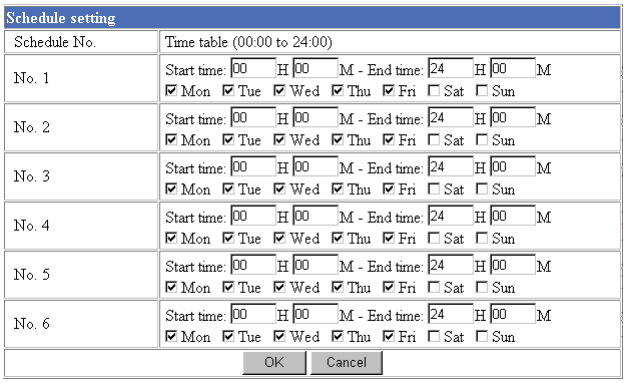
Select the stop bit for the peripheral device connected to the serial interface: **1** or **2** (bits).

OK/Cancel

See “Buttons common to every setting page” on page 14.

Setting the Schedule — Schedule setting Page

When you click **Schedule** on the Administrator menu, the Schedule setting page appears.
Use this page to set up to six schedules used for the Day/Night function, FTP client function, SMTP function, Alarm out 1 or 2 function and Image memory function.



Schedule No. 1 to Schedule No. 6

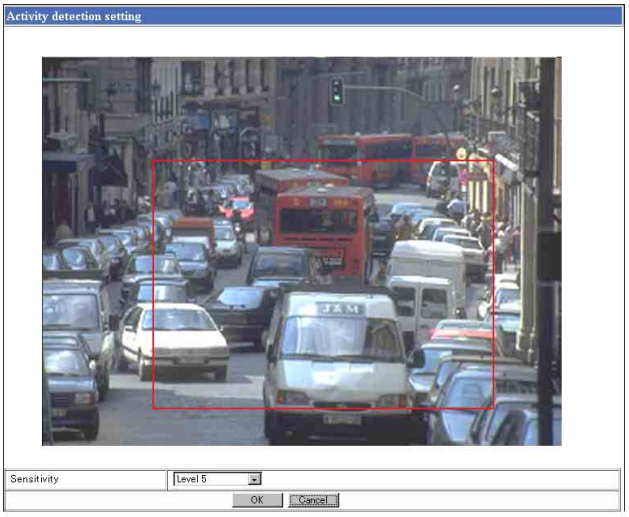
For each schedule, specify Start time (hour and minutes) and End time (hour and minutes), and check the days of the week that you want to activate the function.

OK/Cancel

See “Buttons common to every setting page” on page 14.

Setting the Activity Detection Function — Activity detection setting Page

When you click **Activity detection** on the Administrator menu, the Activity detection setting page appears. Use this page to set up for the activity detection to link various applications.



Sensitivity

Select the sensitivity of the activity detection from the drop-down list. You can select the sensitivity between **Level 1** and **Level 9**. **Level 9** is the maximum sensitivity.

Tip

The Sensitivity of the activity detection means a proportion of the changed area (pixels) to the whole activity detection area.

OK/Cancel

See “Buttons common to every setting page” on page 14.

Setting the Activity Detection Area

Set the activity detection working area as follows:

1. Determine the view angle of the camera at which you want to perform activity detection, using the zoom.
2. Click **Activity detection** on the Administrator menu.
   A still picture is captured and the Activity detection setting page appears.
3. Hold down the mouse left button and drag it diagonally.
   The portion marked with a red frame determines the activity detection working area.
   As the default setting, the whole area is set as the activity detection working area.

Note

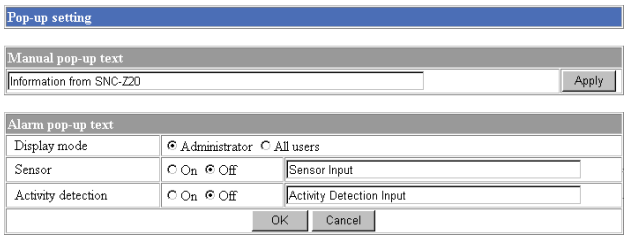
Before using the activity detection, perform the operation test to confirm correct operation.

The activity detection may not operate correctly in the following cases:

– when the Day/Night function is activated on the Camera setting page
– while changing a setting on the Camera setting page
– when the Focus mode menu is set to **Auto** on the Camera setting page
– while zooming in
– when the object is dark
– when the camera is installed in an unstable place that causes vibration to the camera

Showing the Pop-up
— Pop-up setting Page

When you click **Pop-up** on the Administrator menu, the Pop-up setting page appears.
Use this page to set up for displaying a pop-up with your favorite message on the computers monitoring the camera image, or for displaying a pop-up automatically when there is an alarm input.



Manual pop-up text

Type the text to be displayed on a pop-up between 1 and 64 characters.
Click **Apply** to display the pop-up on all the computers monitoring the camera.

Alarm pop-up text

Display mode

Select the computer on which you want to display a pop-up when an alarm is input.
Administrator: The pop-up is displayed only on the computer monitoring the camera image as the Administrator.
All users: The pop-up is displayed on all the computers monitoring the camera image.

Sensor/Activity detection

Select **On** to show a pop-up when an alarm occurs by the earch corresponding sensor. Select **Off** not to show it.
On each text box, type the text to be displayed on the pop-up between 1 and 64 characters.

OK/Cancel

See “Buttons common to every setting page” on page 14.

Using the Supplied Setup Program

To connect the camera to a network, you need to assign a new IP address to the camera when you installed the camera for the first time.
You can assign an IP address in two ways:

- Using the setup program stored in the supplied CD-ROM (see page 43)
- Using the ARP (Address Resolution Protocol) commands (see page 46)

This section explains how to assign an IP address to the camera using the supplied setup program and configure the network.
The setup program also allows the communication bandwidth setting and date and time setting.

Before starting, connect the camera to a computer or a local network, referring to "Assigning the IP Address to the Camera" in the supplied Installation Manual.

Notes

- The IP Setup Program may not operate correctly if you use a personal firewall or antivirus software in your computer. In that case, disable the software or assign an IP address to the camera using another method. For example, see "Assigning the IP Address to the Camera Using ARP Commands" on page 46.
- If you are using Windows XP Service Pack 2 or Windows Vista, disable the Windows Firewall function. Otherwise the IP Setup Program will not operate correctly. For the setting, see "Configuring Windows Firewall" in "When using Windows XP Service Pack 2" on page 51 or "Configuring Windows Firewall" in "When using Windows Vista" on page 53.

Assigning the IP Address Using the Setup Program

1 Insert the CD-ROM in your CD-ROM drive.

When you are using Windows Vista, pop-up "AutoPlay" may appear. For details, "Installing software" in "When using Windows Vista" on page 53.

2 Double-click the Setup folder in the CD-ROM drive.

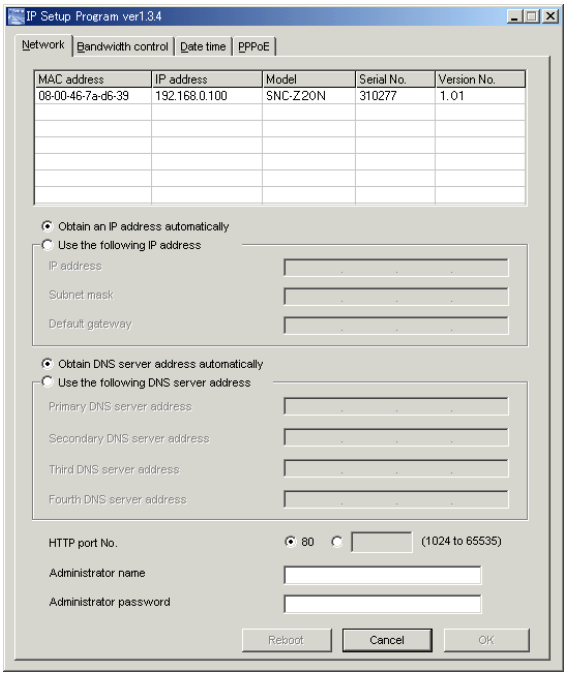
3 Double-click Setup.exe.

4 Install the IP Setup Program on your computer using the wizard.
If the Software License Agreement is displayed, read it carefully and click **Accept** to continue with the installation.

5 Start the IP Setup Program.

When you are using Windows Vista, message "User Account Control – An unidentified program wants access to your computer" may appear. In this case, click **Allow**.

The program detects the network cameras connected to the local network and lists them on the Network tab window.



6 Click on the camera you want to assign a new IP address in the list.
The network settings for the selected camera are displayed.

7 Set the IP address.

To obtain the IP address automatically from a DHCP server:
Select **Obtain an IP address automatically**.
The IP address, Subnet mask and Default gateway are assigned automatically.

To specify the IP address manually:
Select **Use the following IP address**, and type the IP address, Subnet mask and Default gateway in each box.

Note

When you select **Obtain an IP address automatically**, make sure that the DHCP server is operating on the network.

8 Set the primary DNS server address and, if necessary, secondary DNS server address.

To obtain the DNS server addresses automatically:
Select **Obtain DNS server address automatically**.

To specify the DNS server addresses manually:
Select **Use the following DNS server address**, and type the Primary DNS server address and Secondary DNS server address in each box.

Note

The Third DNS server address and Fourth DNS server address are invalid for this camera.

9 Set the HTTP port number.
Normally select **80** for the HTTP port number. To use another port number, select the text box and type a port number between 1024 and 65535.

10 Type the Administrator name and Administrator password.
The default settings of both items are “admin.”

Note

You cannot change the Administrator name and Administrator password in this step. To change these items, see “Setting the User — User setting Page” on page 25.

11 Confirm that all items are correctly set, then click **OK**.
If “Setting OK” is displayed, the IP address is co\rrectly assigned.

Tip

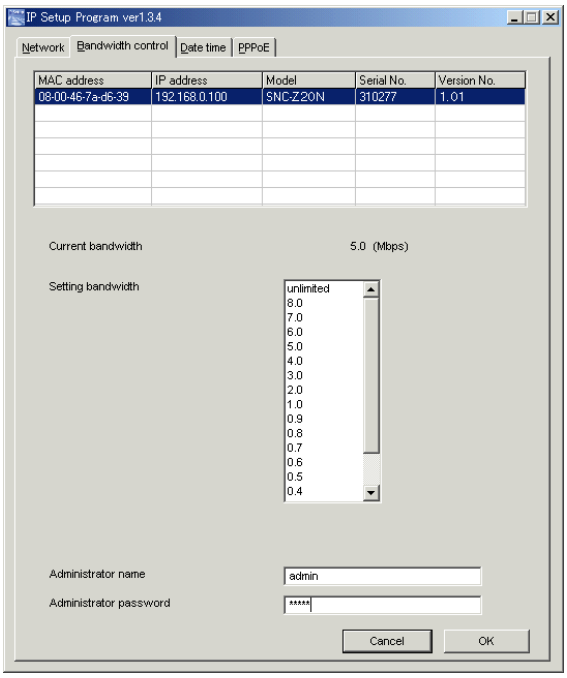
The factory setting of the camera network is as follows.

IP address: 192.168.0.100
Subnet mask: 255.0.0.0

Wireless LAN setting
Type: 802.11 Ad hoc mode
SSID: snc-z20
Channel: 11 ch
WEP: Off
IP address: 10.0.0.100
Subnet mask: 255.0.0.0

Changing the Communication Bandwidth

1 Click the Bandwidth control tab to display the bandwidth setting window.
The current bandwidth is displayed in **Current bandwidth**.



2 Click to select the desired bandwidth from the Setting bandwidth list box.

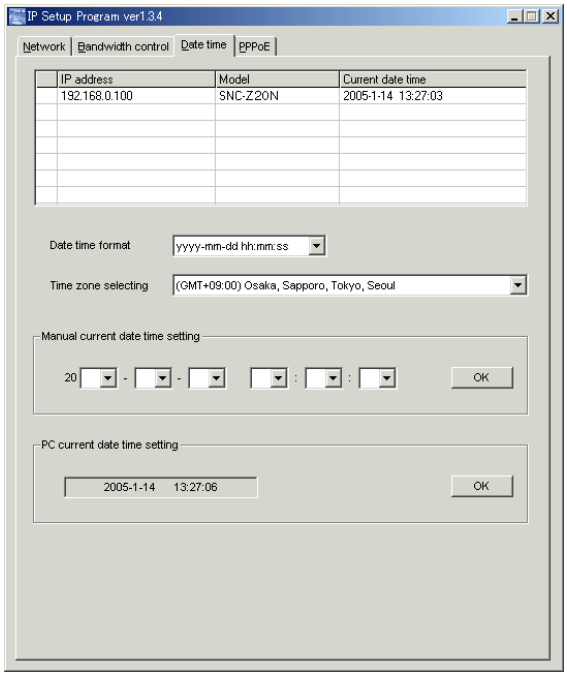
3 Type the Administrator name and Administrator password in each box.

4 Click **OK**.
If "Setting OK" is displayed, the bandwidth setting is completed.

Setting the Date and Time

You can set the date and time on the camera.

1 Click the Date time tab to display the date/time setting window.



2 Click to select the camera you want to set the date and time for.

You can select multiple cameras and set the date and time simultaneously.

3 Select the date/time format from the Date time format drop-down list.

4 Select the area where the camera is installed from the Time zone selecting drop-down list.

5 Set the date and time.

You can set the date and time in two ways.

Manual setting

Set the current date and time on the Manual current date time setting boxes, and click **OK**. The setting boxes are for the year (lower two digits), month, date, hour, minutes and seconds from left to right.

Using the computer's date and time

The date and time set on the computer is displayed in the PC current date time setting box.
Click **OK** on the right to set the camera's date and time to the displayed computer's date and time.

Note

Due to the network properties, there may be a slight difference between the displayed computer's date and time and those set on the camera.

Rebooting the Camera

Click **Reboot** on the Network tab to reboot the camera. It will take about 10 to 20 seconds to reboot.

Assigning the IP Address to the Camera Using ARP Commands

This section explains how to assign an IP address to the camera using ARP (Address Resolution Protocol) commands without using the supplied setup program.

Note

When you turn on the camera, execute the ARP and PING commands within 5 minutes. Also when you restart the camera, execute the operation within 5 minutes.

1 Open the DOS window on the computer.

2 Enter the IP address and the MAC address of the camera you want assign a new IP address to, using the following ARP commands.

```
arp -s <Camera's IP address> <Camera's MAC address>
ping -t <Camera's IP address>
```

Example:

```
arp -s 192.168.0.100  08-00-46-21-00-00
ping -t 192.168.0.100
```

3 When the following line is displayed on the DOS window, hold down **Ctrl** and press **C**.

```
Reply from 192.168.0.100:bytes=32 time...
```

You will normally receive the reply after about 5 repetitions of "Request time out."

4 Wait until the execution of PING finishes, then input the following code.

```
arp -d 192.168.0.100
```

Note

If you do not receive the reply, check the following:
– Did you enter the ARP commands within 5 minutes after the camera was turned on?
If not, turn off the camera and restart the operation.
– Is the NETWORK indicator on the camera flashing?
If the indicator goes off, the network connection has a problem. Connect the network correctly.
– Did you enter the IP address previously used for another device?
Assign a new IP address to the camera.
– Do the computer and the camera have the same network address?
If not, set the same network address on the computer and the camera.

Using the SNMP

This unit supports SNMP (Simple Network Management Protocol). You can read MIB-2 objects and write some MIB-2 objects using software such as SNMP manager software. This unit also supports the coldStart trap which occurs when the power is turned on or the unit restarts, and the Authentication failure trap which informs of an illegal access using SNMP.
Using CGI commands, you can set community name and access limitation, reading/writing right, host to send traps, and some MIB-2 objects. To allow these settings, you need Level 4 authentication (the right to open the setting pages).

1. Inquiry Commands

You can check the SNMP Agent settings using the following CGI commands.

<Method>
GET, POST
<Command>
"http://ip_adr/snmpdconf/inquiry.cgi?inqjs=snmp (JavaScript parameter format)
http://ip_adr/snmpdconf/inquiry.cgi?inq=snmp (standard format)

With the above inquiry, you can obtain the following setting information. The following explains the setting information using the inqjs=snmp (JavaScript parameter) format.

var sysDescr="\"SONY Network Camera SNC-RZ30\"" ...①
var sysObjectID="1.3.6.1.4.1.122.8501" ...②
var sysLocation="\"\"" ...③
var sysContact="\"\"" ...④
var sysName="\"\"" ...⑤
var snmpEnableAuthenTraps="1" ...⑥
var community="public,0.0.0.0,read,1" ...⑦
var community="private,192.168.0.101,write,2" ...⑧
var trap="public,192.168.0.101.1" ...⑨

① describes the instance of "mib-2.system. sysDescr.0". You cannot change this parameter.

② describes the instance of "mib-2.system. sysObjectID.0". You cannot change this parameter.

③ describes the instance of "mib-2.system. sysLocation.0". This field is used to describe the information on the location of this camera. Nothing is set at the factory.

④ describes the instance of "mib-2.system. sysContact.0". This field is used to describe the information on the administrator of this camera. Nothing is set at the factory.

⑤ describes the instance of "mib-2.system. sysName.0". This field is used to describe the administration node of this camera. Nothing is set at the factory.

⑥ describes the instance of "mib-2.snmpEnable AuthenTraps.0". This example shows when "1" (enable) is set. With this setting, a trap occurs when there is an Authentication failure. When "2" (disable) is set, no Authentication failure trap occurs.

⑦ describes the community name and the reading/ writing attributes. This example shows the identification number "ID=1", the community name public, and enables read from any IP address (0.0.0.0).

⑧ describes the community name and the reading/ writing attributes, similarly to ⑦. This example shows the identification number ID=2, the community name "private", and enables "read/ write" by the SNMP request packet from the host "192.168.0.101".

⑨ describes the host name to send a trap. This example shows the identification number "ID=1", the community name "public", and enables sending of traps to the host having the IP address "192.168.0.101".

2. Setting Commands

The unit supports the following setting commands of SNMP.

<Method>
GET, POST
<Command>
http://ip_adr/snmpdconf/snmpdconf.cgi?<parameter>=<value>&<parameter>=...&...

First, perform the settings of the following parameters.

1) sysLocation=<string>
Set the instance of "mib-2.system.sysLocation.0" in the <string> position. The maximum length of <string> is 255 characters.

2) sysContact=<string>
Set the instance of "mib-2.system.sysContact.0" in

the <string> position. The maximum length of <string> is 255 characters.

3) sysName=<string>
Set the instance of “mib-2.system.sysName.0” in the <string> position. The maximum length of <string> is 255 characters.

4) enaAuthTraps=<value>
Set the instance value of “mib-2.snmp.snmp EnableAuthenTraps.0” in the <string> position. Type “1” (enable) or “2” (disable) in the <value> position.

5) community=<ID>,<rwAttr>, <communityName>,<IpAddressString>
Set the community name and the reading/writing attributes. <ID> describes the setting identification number (1 to 8), <rwAttr> describes a character representing the reading/writing attribute (“r”, “R”, “w or “W”), <communityName> describes the community name to be set, and <IpAddressString> describes the IP address of the host you allow the access (0.0.0.0 for any host).
Example: To allow reading/writing any host in the “private” community and having the ID number “2”.
community=2,w,private,0.0.0.0

6) trap=<ID>,<communityName>, <IpAddressString>
Set the host you want to send traps to. <ID> describes the setting identification number (1 to 8), <communityName> describes the community name to send traps to, and <IpAddressString> describes the IP address of the host to send traps to.
Example: To specify the destination of traps as the private community and the ID number “1”.
rap=1,public,196.168.0.101

7) delcommunity=<ID>
This parameter is used to delete the previous community setting. <ID> describes the community setting identification number (1 to 8).

8) deltrap=<ID>
This parameter is used to delete the previous setting of the host to send traps to. <ID> describes the trap setting identification number (1 to 8).

When you have finished changing the SNMP setting information, check the changed settings using an inquiry command. If the changed settings are OK, restart the SNMP using the following CGI command. Be careful that by entering the command, the camera enters the restart mode.

SNMP restart command

<Method>
GET, POST
<Command>
http://ip_adr/snmpdconf/snmpdconf.cgi?snmpd=restart

Storing an HTML File in the Built-in Flash Memory

You can display the favorite homepage that you have created when you enter the IP address of the camera in the Address box of the browser.
This section explains how to store the HTML file of the homepage created using the CGI commands in the built-in flash memory.
To select the display of the created homepage, see "Default URL" on page 15.

Notes

- **Administrator** access rights are required for this operation.
- The file size of the homepage to be stored in the flash memory should be 2.0 MB or less.
- The free space of the built-in memory should be 2.5 MB or more.
- Disable the Image memory function (page 35).
- Make sure that a firewall, etc. is not blocking the HTTP port and FTP port. (If you are not sure, consult your network administrator.)
- When you finish storing in the flash memory, the camera will restart automatically. Do not turn off the power of the camera until the camera has restarted completely.

1 Insert the supplied CD-ROM disc into your CD-ROM drive.

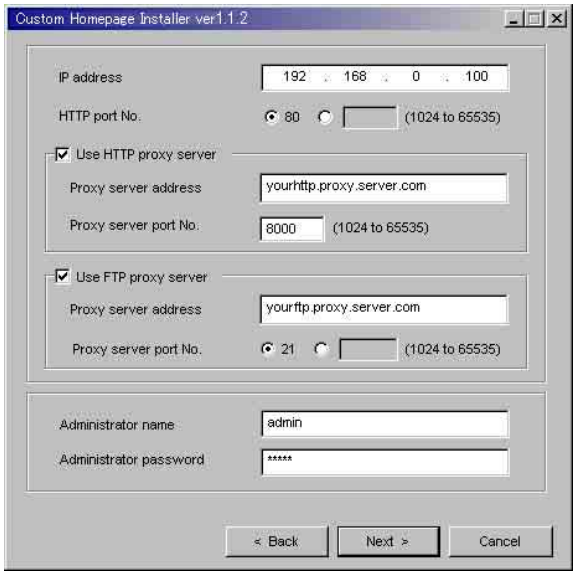
2 Double-click the Homepage folder in the CD-ROM drive.

3 Double-click CustomHomepageInstaller.exe.
The installer starts and notes are displayed.

When you are using Windows Vista, message "User Account Control – An unidentified program wants access to your computer" may appear. In this case, click **Allow**.

4 Read the notes carefully, and click **Next**.
The Software License Agreement is displayed.

5 Read the agreement carefully, select **Agree** if you accept it, then click **Next**.



6 Type the IP address of the camera in the IP address box.

7 Specify the HTTP port No. of the camera.

8 When you use a proxy server, set the following:
For the proxy server of your environments, consult your network administrator.

When using an HTTP proxy server:
Select **Use HTTP proxy server**, and type your settings in the Proxy server address and Proxy server port No. boxes.

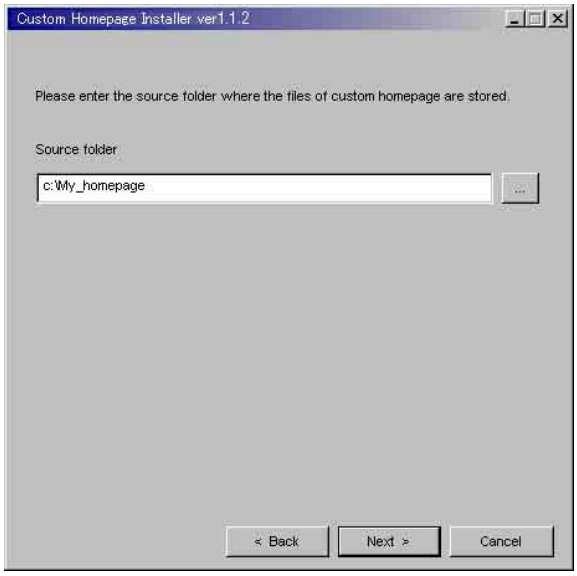
When using an FTP proxy server:
Select **Use FTP proxy server**, and type your settings in the Proxy server address and Proxy server port No. boxes.

Note

If you cannot establish communication with the camera with the proxy server being used, connect the camera to the local network and run the installer without using the proxy server.

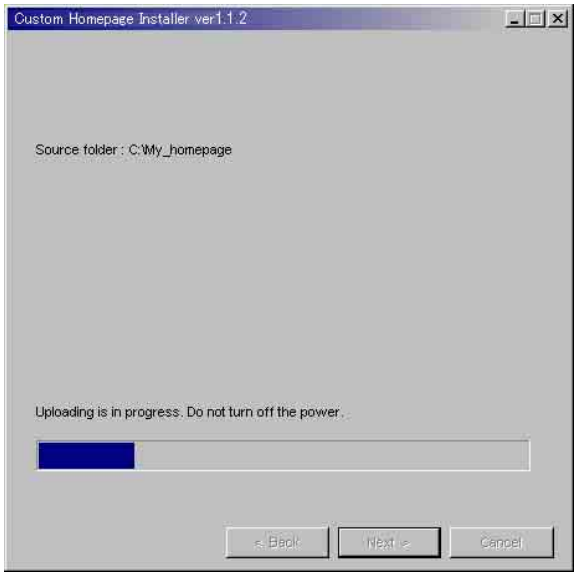
9 Type the Administrator name and Administrator password.

10 Confirm that all items are correct, then click **Next**.

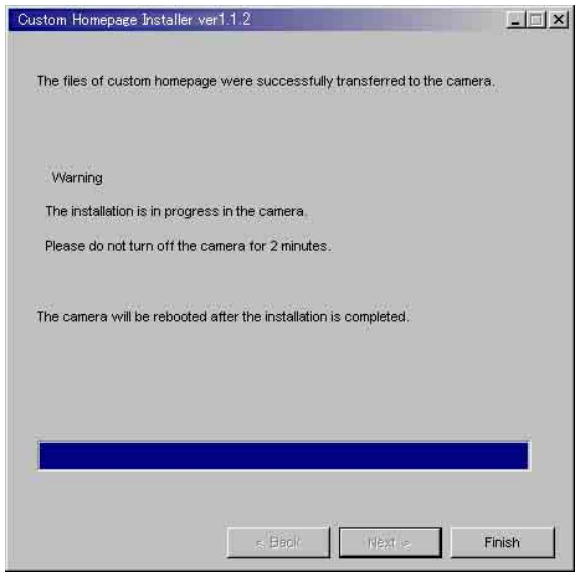


11 Type the path for the folder in which your homepage is stored in the Source folder box, then click **Next**.

12 Click **OK**.
Uploading of the homepage file starts.



The following page will appear after a while. The camera will be restarted automatically in two minutes, and storing to the built-in flash memory is completed.


Custom Homepage Installer ver1.1.2
The files of custom homepage were successfully transferred to the camera.
Warning
The installation is in progress in the camera.
Please do not turn off the camera for 2 minutes.
The camera will be rebooted after the installation is completed.
< Back
Next >
Finish

13 Click **Finish** to exit the program.

When using Windows XP Service Pack 2

Installing software

A warning message regarding the active contents may appear when you install software such as IP Setup Program from CD-ROM. In this case, operate as follows:

Example: In case of IP Setup Program

If message “Internet Explorer” appears, click **Yes**.

Internet Explorer
Active content can harm your computer or disclose personal information. Are you sure that you want to allow CDs to run active content on your computer?
What you should know about active content...
In the future, do not show this message.
Yes
No

If message “File Download – Security Warning” appears, click **Run**.

File Download - Security Warning
Do you want to run or save this file?
Name: SETUP.EXE
Type: Application, 58.5 KB
From: G:\IpSetupProgram
Run
Save
Cancel
While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

Note

If you select **Save** in the “File Download – Security Warning” dialog, you will not be able to perform installation correctly. Delete the downloaded file, and click the **Setup** icon again.

If message “Internet Explorer – Security Warning” appears, click **Run**.

Internet Explorer - Security Warning
The publisher could not be verified. Are you sure you want to run this software?
Name: SETUP.EXE
Publisher: Unknown Publisher
Run
Don't Run
This file does not have a valid digital signature that verifies its publisher. You should only run software from publishers you trust. How can I decide what software to run?

The software installation starts.

Installing ActiveX Control

During installation of ActiveX Control, the information bar or “Security Warning” may appear. In this case, operate as follows:

If message “Information Bar” appears, click **OK**.

Information Bar
Did you notice the Information Bar?
The Information Bar alerts you when Internet Explorer blocks a pop-up window or file download that might not be safe. If a Web page does not display properly, look for the Information Bar (near the top of your browser).
Do not show this message again.
Learn about the Information Bar...
OK

If the information bar appears, click on the bar and select **Install ActiveX Control…**.

If “ Internet Explorer – Security Warning” appears, click **Install**.

Internet Explorer - Security Warning
Do you want to install this software?
Name: Sony Network Camera viewer
Publisher: Sony Corporation
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

The installation of ActiveX Control starts. When installation is completed, the main viewer or the Activity detection setting page appears.

Configuring Windows Firewall

The IP Setup Program may not operate correctly depending on the configuration of Windows Firewall. (No cameras are shown in the list even if they are detected.) In this case, confirm the Windows Firewall configuration as follows:

Example: In case of IP Setup Program

1 Select **Control Panel** from the Start menu of Windows.

2 Select **Security Center** of the working field.

3 Select **Windows Firewall** and select **Off** in the Windows Firewall dialog.

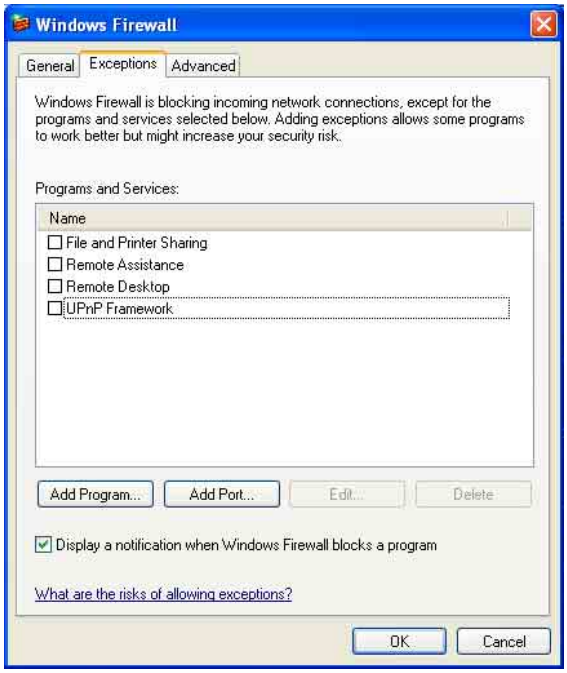
Windows Firewall
General
Exceptions
Advanced
Windows Firewall is helping to protect your PC
Windows Firewall helps protect your computer by preventing unauthorized users from gaining access to your computer through the Internet or a network.
On (recommended)
This setting blocks all outside sources from connecting to this computer, with the exception of those selected on the Exceptions tab.
Don't allow exceptions
Select this when you connect to public networks in less secure locations, such as airports. You will not be notified when Windows Firewall blocks programs. Selections on the Exceptions tab will be ignored.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall may make this computer more vulnerable to viruses and intruders.
What else should I know about Windows Firewall?
OK
Cancel

The cameras will be displayed in the list.

If you want to keep Windows Firewall **On**, continue with the following steps.

4 Select the “Exceptions” tab.

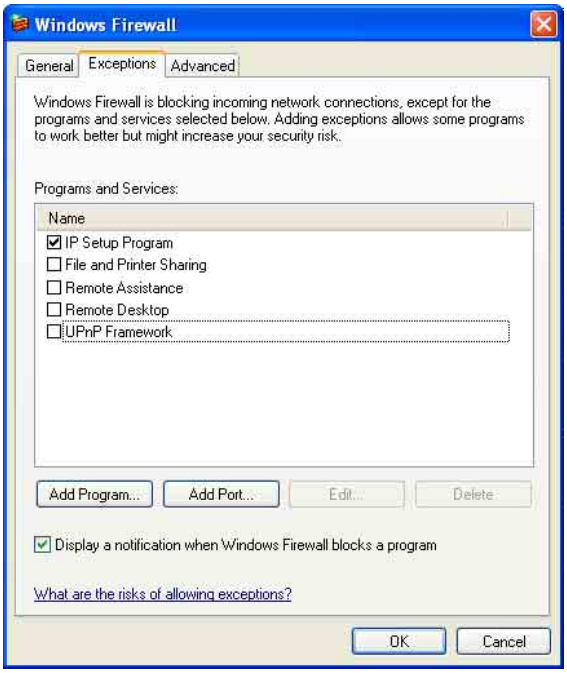
5 Select **Add Program…**.



6 In the Add Program dialog, select **IP Setup Program** and click **OK**.

Then the IP Setup Program is added to the Programs and Services list.

7 Click **OK**.



When the above procedure is completed, the cameras connected in the local network are displayed in the IP Setup Program.

When using Windows Vista

Installing software

A warning message regarding the active contents may appear when you install software such as IP Setup Program from CD-ROM. In this case, operate as follows:

Example: In case of IP Setup Program

If pop-up “AutoPlay” appears when a CD-ROM is inserted into the CD-ROM drive, click **Open folder to view files**.

If message “User Account Control – An unidentified program wants access to your computer” appear, click **Allow**.

The software installation starts.

Starting the software

When you start software such as IP Setup Program, message “User Account Control – An unidentified program wants access to your computer” may appear. In this case, click **Allow**.

Installing ActiveX Control

During installation of ActiveX Control, the information bar or “Security Warning” may appear. In this case, operate as follows:

If message “Information Bar” appears, click **OK**.

Information Bar
Did you notice the Information Bar?
The Information Bar alerts you to security-related conditions (for example, if a potentially unsafe file or pop-up was just blocked). If a webpage does not display properly, look for the Information Bar at the top of the page and click it.
Don't show this message again
Learn about the Information Bar
Close

If the information bar appears, click on the bar and select **Install ActiveX Control…**.

This website wants to install the following add-on: 'Sony Network Camera viewer' from 'Sony Corporation'. If you trust the website and the add-on and want to install it, click here...
IPELA
Network Camera SNC-***
Setting
Home
Install ActiveX Control...
What's the Risk?
More information

If message “User Account Control – Windows needs your permission to continue” appear, click **Continue**.

If “Internet Explorer – Security Warning” appears, click **Install**.

Internet Explorer - Security Warning
Do you want to install this software?
Name: Sony Network Camera viewer
Publisher: Sony Corporation
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

The installation of ActiveX Control starts. When installation is completed, the main viewer or the Activity detection setting page appears.

Configuring Windows Firewall

The IP Setup Program may not operate correctly depending on the configuration of Windows Firewall. (No cameras are shown in the list even if they are detected.) In this case, confirm the Windows Firewall configuration as follows:

Example: In case of IP Setup Program

1 Select **Control Panel** from the Start menu of Windows.

2 Click **Windows Firewall**.

3 Select **Turn Windows Firewall on or off**. "User Account Control – Windows needs your permission to continue" may appear. In this case, click **Continue**.

4 Select **Off** in the "General" tab.

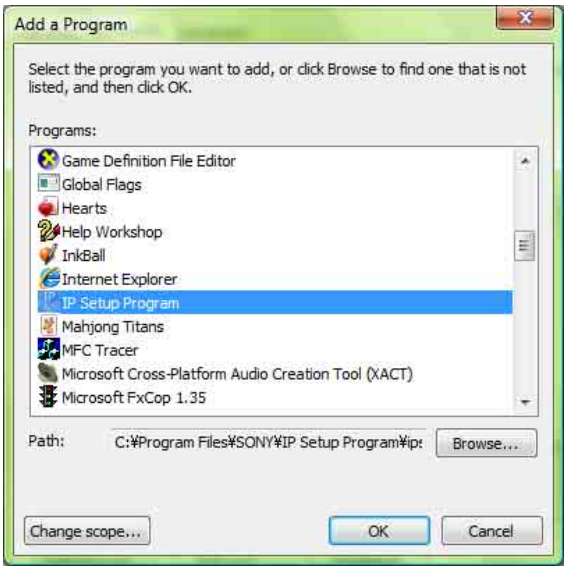
Windows Firewall Settings
General
Exceptions
Advanced
Your computer is not protected: turn on Windows Firewall
Windows Firewall can help prevent hackers or malicious software from gaining access to your computer through the Internet or a network.
On (recommended)
This setting blocks all outside sources from connecting to this computer, except for those unblocked on the Exceptions tab.
Block all incoming connections
Select this option when you connect to less secure networks. All exceptions will be ignored and you will not be notified when Windows Firewall blocks programs.
Off (not recommended)
Avoid using this setting. Turning off Windows Firewall will make this computer more vulnerable to hackers or malicious software.
Tell me more about these settings
OK
Cancel
Apply

The cameras will be displayed in the list.
If you want to keep Windows Firewall **On**, continue with the following steps.

5 Select the "Exceptions" tab.

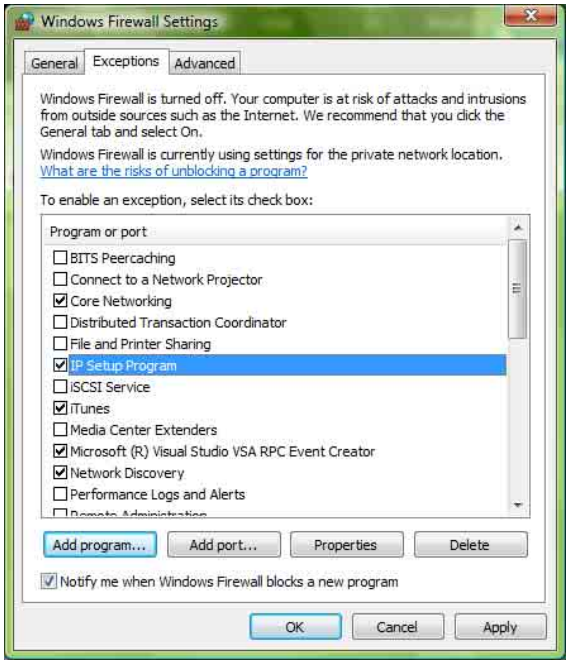
6 Select **Add Program…**.

7 If the Add Program dialog appears, select **IP Setup Program** and click **OK**.



Then the IP Setup Program is added to the Program or port list.

8 Click **OK**.


Windows Firewall Settings
General
Exceptions
Advanced
Windows Firewall is turned off. Your computer is at risk of attacks and intrusions from outside sources such as the Internet. We recommend that you click the General tab and select On.
Windows Firewall is currently using settings for the private network location.
What are the risks of unblocking a program?
To enable an exception, select its check box:
Program or port
BITS Peercaching
Connect to a Network Projector
Core Networking
Distributed Transaction Coordinator
File and Printer Sharing
IP Setup Program
iSCSI Service
iTunes
Media Center Extenders
Microsoft (R) Visual Studio VSA RPC Event Creator
Network Discovery
Performance Logs and Alerts
Add program...
Add port...
Properties
Delete
Notify me when Windows Firewall blocks a new program
OK
Cancel
Apply

When the above procedure is completed, the cameras connected in the local network are displayed in the IP Setup Program.

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